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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------|-----------------------------------------|
| <b>Prüfbericht - Nr.:</b><br><i>Test Report No.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            | <b>Seite 1 von 3</b><br><i>Page 1 of 3</i>                                                                                                                                     |                             |                            |                                         |
| <b>IND/BLR/CH/2021/6327</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |                                                                                                                                                                                |                             |                            |                                         |
| <b>ULR NO:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            | <b>TC568821500006327F</b>                                                                                                                                                      |                             |                            |                                         |
| <b>Auftraggeber:</b><br><i>Client:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            | <b>GEALAN PRIVATE LIMITED</b><br>1 st floor, Door No-1-18/HIE/NR-2, Holiday Inn<br>Express Suits, Nanakramguda, Gachibowli, Hyderabad,<br>Ranga Reddy, Hyderabad 500032, India |                             |                            |                                         |
| <b>Gegenstand der Prüfung:</b><br><i>Test item:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            | <b>GEALAN PRIMA SERIES 60×45MM SLIDER 2 TRACK FRAME PROFILE</b>                                                                                                                |                             |                            |                                         |
| <b>Bezeichnung:</b><br><i>Identification:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            | <b>Serien-Nr.:</b><br><i>Serial No./ Document</i><br>Submitted: Email Dated: 14.07.2021                                                                                        |                             |                            |                                         |
| <b>Wareneingangs-Nr.:</b><br><i>Receipt No.:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            | <b>Eingangsdatum:</b><br><i>Date of receipt:</i>                                                                                                                               |                             |                            |                                         |
| <b>21072021</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            | <b>21.07.2021</b>                                                                                                                                                              |                             |                            |                                         |
| <b>Order No.:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                            | <b>Testing Period:</b>                                                                                                                                                         |                             |                            |                                         |
| <b>166569052</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                            | <b>21.07.2021 to 26.07.2021</b>                                                                                                                                                |                             |                            |                                         |
| <b>Prüfört:</b><br><i>Testing location:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | <b>TÜV Rheinland India Pvt Ltd, Plot No.27B, 2nd cross, Electronic City Phase I</b><br><b>Industrial Area, Hosur Road, Bangalore - 560 100, Karnataka, India.</b>              |                             |                            |                                         |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                            | <b>Customer's Requirement: Flexural Modulus of elasticity acc. to</b><br><b>EN 12608-1: 2016, Annex-A</b>                                                                      |                             |                            |                                         |
| <b>Prüfergebnis:</b><br><i>Test Result:</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            | <b>Refer Page No. 2 to 3</b>                                                                                                                                                   |                             |                            |                                         |
| <b>Prüflaboratorium/ Testing Laboratory:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                            |                                                                                                                                                                                |                             |                            |                                         |
| <b>zusammengestellt/ compiled by:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            | <b>kontrolliert/ checked by:</b>                                                                                                                                               |                             |                            |                                         |
| <b>27.07.2021</b><br><b>Nitin Gate</b><br><b>Asst. Manager – Polymer Section,</b><br><b>Material Testing Laboratories,</b><br><b>Industry Services</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                            | <b>27.07.2021</b><br><b>Ranabir Pal</b><br><b>Sr. Manager - Polymer Section,</b><br><b>Material Testing Laboratories,</b><br><b>Industry Services</b>                          |                             |                            |                                         |
| <b>Datum</b><br><i>Date</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Name</b><br><i>Name</i> | <b>Unterschrift</b><br><i>Signature</i>                                                                                                                                        | <b>Datum</b><br><i>Date</i> | <b>Name</b><br><i>Name</i> | <b>Unterschrift</b><br><i>Signature</i> |
| <b>Sonstiges/ Other Aspects: Nil</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |                                                                                                                                                                                |                             |                            |                                         |
| <b>Abkürzungen: ok / P = entspricht Prüfgrundlage</b><br><b>fail / F = entspricht nicht Prüfgrundlage</b><br><b>n.a. / N = nicht anwendbar</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                            |                                                                                                                                                                                |                             |                            |                                         |
| <b>Abbreviations: ok / P = passed</b><br><b>fail / F = failed</b><br><b>n.a. / N = not applicable</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |                                                                                                                                                                                |                             |                            |                                         |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br><i>This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products. Sampling not done by TUVRI. Test item submitted by client. Sampling not done by TUVRI. Decision rule will be applied at 95% confidence level of measurement uncertainty with coverage factor k=2 while stating the conformity if applicable.</i> |                            |                                                                                                                                                                                |                             |                            |                                         |

**Prüfbericht - Nr.:**

**Test Report No.:**

**IND/BLR/CH/2021/6327**

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**ULR NO:**

**TC568821500006327F**

## TEST RESULTS

**Discipline:** Mechanical

**Product Group:** Plastic and Plastic Products



**Photograph of sample as in received condition**

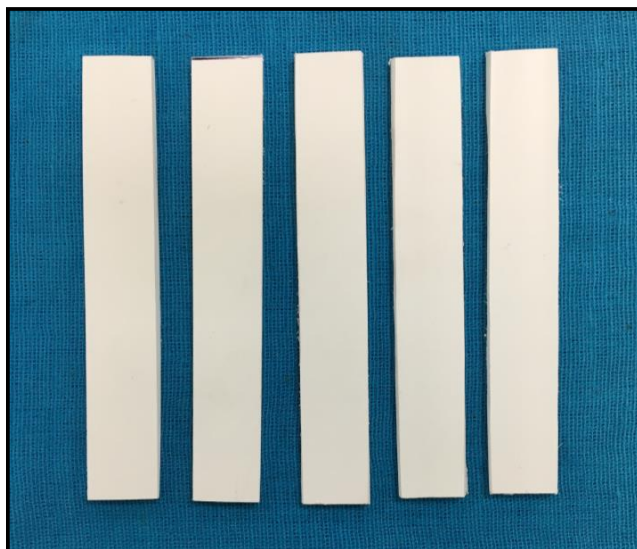
**Test Name:** Flexural Modulus of elasticity acc. to EN 12608-1: 2016, Annex-A

**Test Method:** EN 12608-1:2016, ISO 178:2019 Method A

**Pre- Conditioning:** Specimen conditioned at 23±2°C & 50±5% RH for 88 hours

**Test Condition:** Test Speed: 2 mm/min

**Requirement:** Flexural modulus: Min. 2200 N/mm<sup>2</sup> (Average)



**Photograph of prepared specimens**

**Prüfbericht - Nr.:**

*Test Report No.:*

**IND/BLR/CH/2021/6326**

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ULR NO:

**TC568821500006326F**

## TEST RESULTS

**Discipline:** Mechanical

**Product Group:** Plastic and Plastic Products



**Photograph of sample as in received condition**

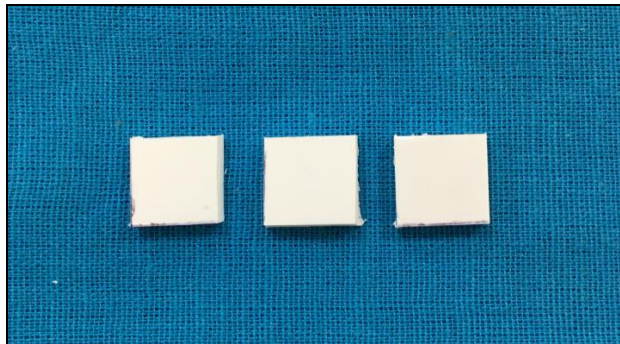
**Test Name:** Vicat Softening Temperature acc. to EN 12608-1: 2016, Annex-A

**Test Method:** EN 12608-1:2016, ISO 306:2013 Method B50

**Pre- Conditioning:** Specimen conditioned at 23±2°C & 50±5% RH for 88 hours

**Test Condition:** Heating rate - 50°C/h  
Force - 50 N  
Penetration – 1 mm

**Requirement:** Min. 75°C (Average)



**Photograph of prepared specimens**

**Prüfbericht - Nr.:***Test Report No.:***IND/BLR/CH/2021/6326****Seite 3 von 3***Page 3 of 3*

ULR NO:

**TC568821500006326F****Observation:**

| Sl. No. | Vicat Softening Temperature (VST), °C | Average, °C |
|---------|---------------------------------------|-------------|
| 1       | 78.7                                  | 79.1        |
| 2       | 78.4                                  |             |
| 3       | 80.1                                  |             |

**Conclusion:** Tested sample meet the requirement of client's specification.**---- End of Report ----**

**Prüfbericht - Nr.:****Test Report No.:** IND/BLR/CH/2021/6327**Seite 3 von 3****Page 3 of 3****ULR NO:** TC568821500006327F**Observation:**

| Specimen No. | Flexural Modulus<br>of Elasticity, N/mm <sup>2</sup> | Average, N/mm <sup>2</sup> |
|--------------|------------------------------------------------------|----------------------------|
| 1            | 2735                                                 | <b>2907</b>                |
| 2            | 3026                                                 |                            |
| 3            | 2988                                                 |                            |
| 4            | 2909                                                 |                            |
| 5            | 2878                                                 |                            |

**Conclusion:** Tested sample meet the requirement of the client's specification.**---- End of Report ----**