

# TECHNICAL DATA SHEET

## ANULON 120



### Material Characteristics

- Excellent optical clarity & transparency.
- Highly resistant to variations in temperature
- Good mechanical properties
- Weather and UV resistance

| Property                                                | Unit               | Test Method | Value               |
|---------------------------------------------------------|--------------------|-------------|---------------------|
| <b>MECHANICAL PROPERTIES</b>                            |                    |             |                     |
| Density                                                 | g/cm <sup>2</sup>  | DIN 53479   | 1.18                |
| Impact Strength                                         | kJ/m <sup>2</sup>  | DIN 53453   | 12                  |
| Tensile strength                                        | N/mm <sup>2</sup>  | DIN 53455   | 72                  |
| Elongation at Break<br>(1/1 test specimen 3; V=5mm/min) | %                  | DIN 53455   | 4.5                 |
| Flexural Strength                                       | N/mm <sup>2</sup>  | DIN 53452   | 105                 |
| Compressive Yeild Stress                                | N/mm <sup>2</sup>  | DIN 53454   | 103                 |
| Modulus of Elasticity                                   | N/mm <sup>2</sup>  | DIN 53457   | 3300                |
| <b>OPTICAL PROPERTIES</b>                               |                    |             |                     |
| Refractive Index                                        |                    | DIN 53491   | 1491                |
| <b>THERMAL PROPERTIES</b>                               |                    |             |                     |
| Co-efficient of linear Thermal expansion                | 1/°C               | VDEO 304/1  | 70-10 <sup>-6</sup> |
| Thermal conductivity                                    |                    |             |                     |
| Max. continuous service temp.                           | W/m <sup>0</sup> C | DIN 52612   | 0.19                |
| Vicat Softening temperature<br>(Method B)               | °C                 |             | 70                  |
| Dimensional stability under heat                        | °C                 | DIN 53460   | 102                 |
|                                                         |                    | DIN 53458   | 85                  |
| <b>ELECTRICAL PROPERTIES</b>                            |                    |             |                     |
| Vol. resistivity                                        | Ohm-cm             | DIN 53482   | >10 <sup>15</sup>   |
| Surface resistance                                      | Ohm                | DIN 53482   | 5-10 <sup>13</sup>  |
| Dielectric strength                                     | KV/mm              | DIN 53481   | ≅30                 |
| Dielectric constant                                     |                    |             |                     |
| at 50 Hz                                                |                    | DIN 53483   | 0.06                |
| at 0.1 Mhz                                              |                    |             | 0.02                |

## PLASTIC ABHIYANTA

PLASTIC ENGINEERS & CONSULTANTS

AN ISO 9001:2015 CERTIFIED COMPANY

25A, CHANDNI CHOWK STREET, 1st FLOOR,  
KOLKATA-700072, INDIA

✉ anulon@plasticabhiyanta.com

☎ +91 8240692783

[www.anulon.com](http://www.anulon.com)

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