ROD

PLATE

TUBE



Raw Material

Polyester (PET)

| General Properties | Test Method | Unit | Value |
|--|-------------------------|----------------------------------|----------------------|
| Density | ISO 1183 | g/cm³ | 1.38 |
| Water Absorption In Air 50% r.h. | ISO 62 | % | 0.2 |
| Absorption 23-C In Water-Saturation | ISO 62:1999(modified) | % | 0.5 |
| Food Compliance | - | FDA/BfR | YES |
| UV Stability | - | - | - |
| Mechanical Properties | | | |
| Tensile Strength At Yield At Break | ISO 527-1/2:1993 | N/mm² | 85 |
| Elongation at Break | ISO 527-1/2:1993 | % | 50 |
| Tensile Modulus Of Elasticity | ISO 527-1/2:1993 | N/mm² | 3700 |
| Impact Strength Charpy 7.5 J | ISO 604:2002 | KJ/mm² | - |
| Notched Impact Strenght Charpy | ISO 180:2000 | KJ/mm² | 5 |
| Ball Indentation Hardness | - | N/mm² | 170 |
| Rockwell Hardness | ISO 868:2003 | Scale M | 95 |
| Coefficient Of Friction To Steel | - | - | 0.25 |
| Thermal Properties | | | |
| Melting Temperature | ISO 3146 | °C | 255 |
| Thermal Conductivity | ISO 8301:1991 | W/(km) | 0.28 |
| Deformation at temperature HDT | ISO 75 | °C | 95 |
| Linear Expansion Coeficient 23-60Degrees | ISO 11359-2:1999 | 10 ⁻⁶ K ⁻¹ | 70 |
| Service Temperature, Long Term | Average | °C | 115 |
| Service Temperature, Short Term (MAX) | Average | °C | 170 |
| Minimum Operating Temperature | Average | °C | -20 |
| Flammability | UL 94 (3-6mm thickness) | - | НВ |
| Electrical Properties | | | |
| Dielectric Constant | ISO 250 | - | 3.2 |
| Dissipation Factor Tan Δ at 1 MHz | ISO 250 | - | 0.01 |
| Volume Resistivity | ISO 93 | Ωcm | 1 x 10 ¹⁶ |
| Dielectric Strength | ISO 243 | KV/mm | 60 |

Applications:

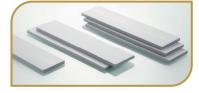
- High Tolerance Gears
- Precision Guides & Rails
- Conveyor Rollers
- Distribution Valves

Characteristics:

- Excellent Mechanical Properties
- Superior Wear Resistance
- Excellent Dimensional Stability
- Low Co-efficient Of Friction







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