

ELASTOMERS

Ultrasint PP nat 01

HIGHLIGHTS

- Excellent Plasticity
- High Elongation
- Low Moisture Absorption
- High Durability

APPLICATIONS

- Pipes and ducts for and other media
- Water reservoirs and manifolds
- Economic and functional prototypes
- Multi-purpose industrial goods
- Durable jigs & fixtures

TYPICAL PHYSICAL PROPERTIES

| PROPERTY | TEST METHOD | TYPICAL VALUES |
|--|----------------------------|----------------|
| Bulk Density / kg/m ³ | DIN EN ISO 60 | 330 |
| Printed Part Density / kg/m ³ | ISO 61 | 890 |
| Mean particle size d50 / μm | Laser Diffraction | 60-70 |
| Melting Temperature / °C | ISO 11357 (10 K/min) | 140 |
| Crystallization Temperature / °C | ISO 11357 (10 K/min) | 100 |
| Melt Volume Flow Rate / cm ³ /10min | ISO 1133 (220 °C, 2.16 kg) | 14 |
| HDT/A (1.8 MPa) / °C | ISO 75-2 | 62 |
| HDT/B (0.45 MPa) / °C | ISO 75-2 | 102 |
| Vicat/A (10 N) / °C | ISO 306 | 131 |
| Vicat/B (50 N) / °C | ISO 306 | 90 |

| PROPERTY | TEST METHOD | TYPICAL VALUES X-DIRECTION | TYPICAL VALUES Z-DIRECTION |
|---------------------------------|----------------|-------------------------------|-------------------------------|
| Tensile Strength / MPa | ISO 527-2 | 28 | 28 |
| Tensile Modulus / MPa | ISO 527-2 | 1400 | 1400 |
| Tensile Elongation at break / % | ISO 527-2 | 30 | 10 |
| Flexural Modulus / MPa | DIN EN ISO 178 | 1250 | 1500 |

The material properties provided herein are for reference purposes only. Actual values may vary significantly as they are dramatically affected by part geometry and process parameters. Material specifications are subject to change without notice.



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