



Ultrasint® PP nat 01

POLYPROPYLENE

Ultrasint® PP nat 01 now harnesses the properties of polyolefins for PBF technologies, delivering the well-known characteristics of polypropylene, such as excellent chemical resistance, ductility and media tightness.

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 and fixtures



HEADQUARTERS

ALM - Advanced Laser Materials

3115 Lucius McCelvey, Temple, TX 76504

P: 1.254.773.3080

FAX: 1.254.773.3084

E: info@advancedlasermaterials.com

AdvancedLaserMaterials.com

 **BASF**
We create chemistry

Ultrasint® PP nat 01



POLYPROPYLENE

Ultrasint® PP nat 01 now harnesses the properties of polyolefins for PBF technologies, delivering the well-known characteristics of polypropylene, such as excellent chemical resistance, ductility and media tightness.

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

TYPICAL PHYSICAL PROPERTIES			
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.