

BASF Ultramid® T 4381 LDS 10/25% Glass/Mineral Filled PA6/6T (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass/Mineral Reinforced

Material Notes:

Description: Ultramid® T 4381 LDS is a semi-crystalline, partially aromatic high temperature polyamide (PA6/6T) for laser direct structuring (LPKFLDS®). As the material is reinforced with 10% fiberglass and 25% mineral filling, high-strength mechatronic plastic parts can be manufactured efficiently, quickly and flexibly with LDS. The innovative material offers a broad processing window for optimal results regarding: laser activation, metallization, adhesion of the conductors. Ultramid T 4381 LDS is based on Ultramid T and offers an ideal combination of high melting temperature, good processability and low water absorption. This specialty from BASF's engineering plastics is already being used in electrical engineering and automotive construction, especially where high heat distortion temperature is required. Information provided by BASF

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Ultramid-T-4381-LDS-1025-GlassMineral-Filled-PA66T-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 lb/in ³	ISO 1183
Water Absorption	4.2 - 5.2 %	4.2 - 5.2 %	ISO 62
Moisture Absorption at Equilibrium	0.80 - 1.2 %	0.80 - 1.2 %	50% RH; ISO 62
Viscosity Measurement	130	130	ISO 307
Linear Mold Shrinkage	0.0047 cm/cm	0.0047 in/in	

Thermal Properties	Metric	English	Comments
Melting Point	295 °C	563 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	265 °C	509 °F	ISO 75-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+12 ohm-cm	3.00e+12 ohm-cm	IEC 60093
Dielectric Constant	4.2	4.2	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dissipation Factor	0.038	0.038	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Processing Properties	Metric	English	Comments
Melt Temperature	310 - 330 °C	590 - 626 °F	Injection molding/Extrusion
Mold Temperature	100 - 140 °C	212 - 284 °F	Injection molding

Descriptive Properties	Value	Comments
Color	Black	
Commercial Status	Europe	

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