

Toyobo GLAMIDE® T-779 Nylon-6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Mineral Filled

Material Notes:

GLAMIDE® is very tough and exhibits high abrasion resistance. It has a high melting point and heat resistance, has well-balanced proportions of mechanical properties, performs self-distinguishing and a specific grade approved as UL94V-0 class is provided, and it exhibits excellent chemical resistance and oil resistance. Grade T-779 is a mineral-reinforced Nylon-6 with high impact resistance. It is used for plating.³⁷

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-779-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	Absolute Drying; ASTM-D792
Filler Content	37 %	37 %	
Water Absorption	0.70 %	0.70 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0080 - 0.013 cm/cm	0.0080 - 0.013 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	10 g/10 min	10 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	25.0 MPa	3630 psi	Practical Use; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	31.0 MPa	4500 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	35.0 MPa	5080 psi	Practical Use; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	65.0 MPa	9430 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	75.0 MPa	10900 psi	Practical Use; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	80.0 MPa	11600 psi	

Mechanical Properties	Metric @ Temperature -40.0 °C	English @ Temperature -40.0 °F	Absolute Drying; ASTM-D638 Comments
Elongation at Break	16 %	16 %	Absolute Drying; ASTM-D638
	35 %	35 %	Practical Use; ASTM-D638
Flexural Strength	32.0 MPa @Temperature 80.0 °C	4640 psi @Temperature 176 °F	Practical Use; ASTM-D790
	48.0 MPa @Temperature 80.0 °C	6960 psi @Temperature 176 °F	Absolute Drying; ASTM-D790
	62.0 MPa @Temperature 23.0 °C	8990 psi @Temperature 73.4 °F	Practical Use; ASTM-D790
	110 MPa @Temperature 23.0 °C	16000 psi @Temperature 73.4 °F	Absolute Drying; ASTM-D790
	132 MPa @Temperature -40.0 °C	19100 psi @Temperature -40.0 °F	Practical Use; ASTM-D790
	140 MPa @Temperature -40.0 °C	20300 psi @Temperature -40.0 °F	Absolute Drying; ASTM-D790
Flexural Modulus	0.700 GPa @Temperature 80.0 °C	102 ksi @Temperature 176 °F	Practical Use; ASTM-D790
	1.10 GPa @Temperature 80.0 °C	160 ksi @Temperature 176 °F	Absolute Drying; ASTM-D790
	1.50 GPa @Temperature 23.0 °C	218 ksi @Temperature 73.4 °F	Practical Use; ASTM-D790
	4.00 GPa @Temperature 23.0 °C	580 ksi @Temperature 73.4 °F	Absolute Drying; ASTM-D790
	5.10 GPa @Temperature -40.0 °C	740 ksi @Temperature -40.0 °F	Practical Use; ASTM-D790
	5.90 GPa @Temperature -40.0 °C	856 ksi @Temperature -40.0 °F	Absolute Drying; ASTM-D790
Izod Impact, Notched	0.600 J/cm @Temperature -40.0 °C	1.12 ft-lb/in @Temperature -40.0 °F	Absolute Drying; ASTM-D256
	0.820 J/cm	1.54 ft-lb/in	Practical Use; ASTM-D256

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	1.05 J/cm	1.97 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	Practical Use; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	74.0 µm/m-°C	41.1 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	183 °C	361 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	96.0 °C	205 °F	Absolute Drying; ASTM-D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 ohm-cm	1.00e+9 ohm-cm	Practical Use; ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	16.0 kV/mm	406 kV/in	2mmt, Practical Use; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	21.0 kV/mm	533 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	120 sec	120 sec	Practical Use; ASTM-D495
	130 sec	130 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	
Mold Temperature	70.0 - 110 °C	158 - 230 °F	
Injection Pressure	50.0 - 60.0 MPa	7250 - 8700 psi	

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