

Toyobo GLAMIDE® T-403 Nylon-6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 50% Glass Fiber 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-403 is a GF reinforced Nylon-6. It contains 45% GF.45

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-403-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.48 g/cc	1.48 g/cc	Absolute Drying; ASTM-D792
Filler Content	45 %	45 %	
Water Absorption	1.1 %	1.1 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	1.9 %	1.9 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	4.0 g/10 min	4.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	90.0 MPa	13100 psi	Practical Use (Water Absorption 2.0%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	120 MPa	17400 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	130 MPa	18900 psi	Practical Use (Water Absorption 2.0%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	200 MPa	29000 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	250 MPa	36300 psi	Practical Use (Water Absorption 2.0%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	290 MPa Metric	42100 psi English	Comments Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	3.2 %	3.2 %	Absolute Drying; ASTM-D638
	3.4 %	3.4 %	Practical Use (Water Absorption 2.0%); ASTM-D638
Flexural Strength	100 MPa	14500 psi	Practical Use (Water Absorption 2.0%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	150 MPa	21800 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	180 MPa	26100 psi	Practical Use (Water Absorption 2.0%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	290 MPa	42100 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	300 MPa	43500 psi	Practical Use (Water Absorption 2.0%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	360 MPa	52200 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	4.50 GPa	653 ksi	Practical Use (Water Absorption 2.0%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	6.80 GPa	986 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	7.20 GPa	1040 ksi	Practical Use (Water Absorption 2.0%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	12.0 GPa	1740 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	12.5 GPa	1810 ksi	Practical Use (Water Absorption 2.0%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	13.9 GPa	2020 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Compressive Strength	160 MPa	23200 psi	Absolute Drying; ASTM-D695
Izod Impact, Notched	1.15 J/cm	2.15 ft-lb/in	Absolute Drying; ASTM-D256

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	1.40 J/cm	2.62 ft-lb/in	Practical Use (Water Absorption 2.0%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.90 J/cm	3.56 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.50 J/cm	4.68 ft-lb/in	Practical Use (Water Absorption 2.0%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 µm/m-°C	11.1 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	217 °C	423 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	217 °C	423 °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 (Water Absorption 2.0%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Constant	4.2	4.2	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	19.0 kV/mm	483 kV/in	Practical Use (Water Absorption 2.0%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	25.0 kV/mm	635 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.010	0.010	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	92 sec	92 sec	Practical Use (Water Absorption 2.0%); ASTM-D495
	100 sec	100 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	550 V	550 V	IEC Method

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Mold Temperature	60.0 °C	140 °F	
Injection Pressure	75.0 - 95.0 MPa	10900 - 13800 psi	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China