

Toyobo GLAMIDE® T-400G15 Nylon-6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 20% 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-400G15 is a GF reinforced Nylon-6. It contains 15% GF.15

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-400G15-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	Absolute Drying; ASTM-D792
Filler Content	15 %	15 %	
Water Absorption	1.4 %	1.4 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	3.0 %	3.0 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0070 - 0.011 cm/cm	0.0070 - 0.011 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	25 g/10 min	25 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	35.0 MPa	5080 psi	Practical Use (Water Absorption 3.0%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	50.0 MPa	7250 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	60.0 MPa	8700 psi	Practical Use (Water Absorption 3.0%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	120 MPa	17400 psi	Practical Use (Water Absorption 3.0%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	120 MPa	17400 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Mechanical Properties	145 MPa Metric	21000 psi English	Comments Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	4.0 %	4.0 %	Absolute Drying; ASTM-D638
	9.0 %	9.0 %	Practical Use (Water Absorption 3.0%); ASTM-D638
Flexural Strength	45.0 MPa	6530 psi	Practical Use (Water Absorption 3.0%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	80.0 MPa	11600 psi	Practical Use (Water Absorption 3.0%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	85.0 MPa	12300 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	100 MPa	14500 psi	Practical Use (Water Absorption 3.0%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	170 MPa	24700 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	210 MPa	30500 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	1.70 GPa	247 ksi	Practical Use (Water Absorption 3.0%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	2.30 GPa	334 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	2.70 GPa	392 ksi	Practical Use (Water Absorption 3.0%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.40 GPa	783 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.60 GPa	812 ksi	Practical Use (Water Absorption 3.0%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	6.70 GPa	972 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Compressive Strength	110 MPa	16000 psi	Absolute Drying; ASTM-D695
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	Absolute Drying; ASTM-D256

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	0.550 J/cm	1.03 ft-lb/in	Practical Use (Water Absorption 3.0%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.640 J/cm	1.20 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.800 J/cm	1.50 ft-lb/in	Practical Use (Water Absorption 3.0%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	217 °C	423 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	178 °C	352 °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 3.0%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	17.0 kV/mm	432 kV/in	Practical Use (Water Absorption 3.0%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dielectric Strength	23.0 kV/mm	584 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	90 sec	90 sec	Practical Use (Water Absorption 3.0%); ASTM-D495
	110 sec	110 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	550 V	550 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	
Mold Temperature	60.0 °C	140 °F	
Injection Pressure	30.0 - 55.0 MPa	4350 - 7980 psi	

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