

Toyobo GLAMIDE® T-401 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-401 is a GF reinforced Nylon-6. It contains 20% GF.20

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-401-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.29 g/cc	1.29 g/cc	Absolute Drying; ASTM-D792
Filler Content	20 %	20 %	
Water Absorption	1.4 %	1.4 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	2.8 %	2.8 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0050 - 0.0080 cm/cm	0.0050 - 0.0080 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	22 g/10 min	22 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	38.0 MPa	5510 psi	Practical Use (Water Absorption 2.8%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	53.0 MPa	7690 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	70.0 MPa	10200 psi	Practical Use (Water Absorption 2.8%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	125 MPa	18100 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	130 MPa	18900 psi	Practical Use (Water Absorption 2.8%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	150 MPa Metric	21800 psi English	Comments Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	3.8 %	3.8 %	Absolute Drying; ASTM-D638
	6.0 %	6.0 %	Practical Use (Water Absorption 2.8%); ASTM-D638
Flexural Strength	58.0 MPa	8410 psi	Practical Use (Water Absorption 2.8%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	100 MPa	14500 psi	Practical Use (Water Absorption 2.8%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	110 MPa	16000 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	115 MPa	16700 psi	Practical Use (Water Absorption 2.8%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	180 MPa	26100 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	240 MPa	34800 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	2.40 GPa	348 ksi	Practical Use (Water Absorption 2.8%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	2.90 GPa	421 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	3.20 GPa	464 ksi	Practical Use (Water Absorption 2.8%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.30 GPa	914 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.60 GPa	957 ksi	Practical Use (Water Absorption 2.8%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	8.00 GPa	1160 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Compressive Strength	120 MPa	17400 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
	0.600 J/cm @Temperature -40.0 °C	1.12 ft-lb/in @Temperature -40.0 °F	Practical Use (Water Absorption 2.8%); ASTM-D256
	0.700 J/cm @Temperature 23.0 °C	1.31 ft-lb/in @Temperature 73.4 °F	Absolute Drying; ASTM-D256
	1.90 J/cm @Temperature 23.0 °C	3.56 ft-lb/in @Temperature 73.4 °F	Practical Use (Water Absorption 2.8%); ASTM-D256
Taber Abrasion, mg/1000 Cycles	10	10	CS-17, Absolute Drying; ASTM-D1044

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 µm/m-°C	16.7 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)	180 °C	356 °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 2.8%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Constant	4.0	4.0	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	17.0 kV/mm	432 kV/in	Practical Use (Water Absorption 2.8%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	23.0 kV/mm	584 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	90 sec	90 sec	Practical Use (Water Absorption 2.8%); ASTM-D495
	100 sec	100 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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