

Toyobo GLAMIDE® T-802 Nylon-6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced, Flame Retardant

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-802 is a soft type, non-reinforced Nylon-6 used in high-cycles.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-802-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	Absolute Drying; ASTM-D792
Water Absorption	2.3 %	2.3 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	3.5 %	3.5 %	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	
	0.012 - 0.014 cm/cm	0.012 - 0.014 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	55 g/10 min	55 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	20.0 MPa	2900 psi	Practical Use (Water Absorption 3.5%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	30.0 MPa	4350 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	35.0 MPa	5080 psi	Practical Use (Water Absorption 3.5%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	80.0 MPa	11600 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	100 MPa	14500 psi	Practical Use (Water Absorption 3.5%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	110 MPa	16000 psi	Absolute Drying; ASTM-D638

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
Elongation at Break	115 %	115 %	Absolute Drying; ASTM-D638
	>= 200 %	>= 200 %	Practical Use (Water Absorption 3.5%); ASTM-D638
Flexural Strength	25.0 MPa	3630 psi	Practical Use (Water Absorption 3.5%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	40.0 MPa	5800 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	50.0 MPa	7250 psi	Practical Use (Water Absorption 3.5%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	103 MPa	14900 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	125 MPa	18100 psi	Practical Use (Water Absorption 3.5%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	130 MPa	18900 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	0.400 GPa	58.0 ksi	Practical Use (Water Absorption 3.5%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	0.800 GPa	116 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	1.00 GPa	145 ksi	Practical Use (Water Absorption 3.5%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.70 GPa	392 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.30 GPa	479 ksi	Practical Use (Water Absorption 3.5%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	3.60 GPa	522 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Compressive Strength	82.0 MPa	11900 psi	Absolute Drying; ASTM-D695
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	0.500 J/cm Metric	0.937 ft-lb/in English	Practical Use (Water Absorption 3.5%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.540 J/cm	1.01 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.00 J/cm	7.49 ft-lb/in	Practical Use (Water Absorption 3.5%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	5.0	5.0	CS-17, Absolute Drying; ASTM-D1044

Thermal Properties	Metric	English	Comments
CTE, linear	84.0 µm/m-°C	46.7 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	175 °C	347 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	70.0 °C	158 °F	Absolute Drying; ASTM-D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+8 - 1.00e+9 ohm-cm	1.00e+8 - 1.00e+9 ohm-cm	Practical Use (Water Absorption 3.5%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Constant	3.8	3.8	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	8.0	8.0	Practical Use (Water Absorption 3.5%); ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	12.0 kV/mm	305 kV/in	Practical Use (Water Absorption 3.5%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	18.0 kV/mm	457 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.020	0.020	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	105 sec	105 sec	Practical Use (Water Absorption 3.5%); ASTM-D495
	125 sec	125 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC Method

Electrical Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Melt Temperature	240 - 260 °C	464 - 500 °F	
Mold Temperature	80.0 °C	176 °F	
Injection Pressure	30.0 - 40.0 MPa	4350 - 5800 psi	

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