

Toyobo GLAMIDE® T-808-02 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-808-02 is a flame resistant, aromatic Nylon-6. It is non-bleeding and of non-halogen origin.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-808-02-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	Absolute Drying; ASTM-D792
Water Absorption	1.3 %	1.3 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	3.0 %	3.0 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.010 - 0.013 cm/cm	0.010 - 0.013 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	40 g/10 min	40 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	20.0 MPa	2900 psi	Practical Use (Water Absorption 3.0%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	32.0 MPa	4640 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	40.0 MPa	5800 psi	Practical Use (Water Absorption 3.0%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	75.0 MPa	10900 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	90.0 MPa	13100 psi	Practical Use (Water Absorption 3.0%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	100 MPa	14500 psi	

Mechanical Properties	Metric @ Temperature -40.0 °C	English @ Temperature -40.0 °F	Absolute Drying; ASTM-D638 Comments
Elongation at Break	6.0 %	6.0 %	Absolute Drying; ASTM-D638
	15 %	15 %	Practical Use (Water Absorption 3.0%); ASTM-D638
Flexural Strength	26.0 MPa @Temperature 80.0 °C	3770 psi @Temperature 176 °F	Practical Use (Water Absorption 3.0%); ASTM-D790
	42.0 MPa @Temperature 80.0 °C	6090 psi @Temperature 176 °F	Absolute Drying; ASTM-D790
	45.0 MPa @Temperature 23.0 °C	6530 psi @Temperature 73.4 °F	Practical Use (Water Absorption 3.0%); ASTM-D790
	100 MPa @Temperature 23.0 °C	14500 psi @Temperature 73.4 °F	Absolute Drying; ASTM-D790
	120 MPa @Temperature -40.0 °C	17400 psi @Temperature -40.0 °F	Practical Use (Water Absorption 3.0%); ASTM-D790
	145 MPa @Temperature -40.0 °C	21000 psi @Temperature -40.0 °F	Absolute Drying; ASTM-D790
Flexural Modulus	0.500 GPa @Temperature 80.0 °C	72.5 ksi @Temperature 176 °F	Practical Use (Water Absorption 3.0%); ASTM-D790
	1.00 GPa @Temperature 80.0 °C	145 ksi @Temperature 176 °F	Absolute Drying; ASTM-D790
	1.30 GPa @Temperature 23.0 °C	189 ksi @Temperature 73.4 °F	Practical Use (Water Absorption 3.0%); ASTM-D790
	3.30 GPa @Temperature 23.0 °C	479 ksi @Temperature 73.4 °F	Absolute Drying; ASTM-D790
	5.10 GPa @Temperature -40.0 °C	740 ksi @Temperature -40.0 °F	Practical Use (Water Absorption 3.0%); ASTM-D790
	5.50 GPa @Temperature -40.0 °C	798 ksi @Temperature -40.0 °F	Absolute Drying; ASTM-D790
Compressive Strength	80.0 MPa	11600 psi	Absolute Drying; ASTM-D695
Izod Impact, Notched	0.300 J/cm	0.562 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric ²⁷⁵ /cm	English ²⁷⁵ -lb/in	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	Absolute Drying; ASTM-D256
	0.450 J/cm	0.843 ft-lb/in	Practical Use (Water Absorption 3.0%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.75 J/cm	3.28 ft-lb/in	Practical Use (Water Absorption 3.0%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	70.0 µm/m-°C	38.9 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	84.0 °C	183 °F	Absolute Drying; ASTM-D648
Flammability, UL94	V-0	V-0	

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 3.0%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Constant	5.2	5.2	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
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	
	25.0 kV/mm	635 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.080	0.080	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	105 sec	105 sec	Practical Use (Water Absorption 3.0%); ASTM-D495
	120 sec	120 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	240 - 260 °C	464 - 500 °F	

Processing Properties	Metric	English	Comments
Injection Pressure	30.0 - 45.0 MPa	4350 - 6530 psi	

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