

Toyobo GLAMIDE® TY-502NZ 6T-Nylon

Category : Polymer , Thermoplastic , Nylon , Nylon, Aromatic

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 TY-502NZ is a non-reinforced, aromatic 6T-Nylon with a high melting point.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-TY-502NZ-6T-Nylon.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	Absolute Drying; ASTM-D792
Water Absorption	0.70 %	0.70 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	1.9 %	1.9 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 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	7.0 g/10 min	7.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	28.0 MPa	4060 psi	Practical Use (Water Absorption 1.9%); 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	
	85.0 MPa	12300 psi	Practical Use (Water Absorption 1.9%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	90.0 MPa	13100 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	106 MPa	15400 psi	Practical Use (Water Absorption 1.9%); 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	20 %	20 %	ASTM-D638
Flexural Strength	45.0 MPa	6530 psi	Practical Use (Water Absorption 1.9%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	80.0 MPa	11600 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	130 MPa	18900 psi	Practical Use (Water Absorption 1.9%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	145 MPa	21000 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	155 MPa	22500 psi	Practical Use (Water Absorption 1.9%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	160 MPa	23200 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	1.00 GPa	145 ksi	Practical Use (Water Absorption 1.9%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	2.50 GPa	363 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	3.40 GPa	493 ksi	Practical Use (Water Absorption 1.9%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.50 GPa	508 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.20 GPa	609 ksi	Practical Use (Water Absorption 1.9%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	4.50 GPa	653 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Compressive Strength	100 MPa	14500 psi	Absolute Drying; ASTM-D695
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	Practical Use (Water Absorption 1.9%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.700 J/cm	1.31 ft-lb/in	Practical Use (Water Absorption 1.9%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric J/cm	English lb/in	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	Absolute Drying; ASTM-D256
	1.20 J/cm	2.25 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 $\mu m/m-^{\circ}C$	30.6 $\mu in/in-^{\circ}F$	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	170 °C	338 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	Absolute Drying; ASTM-D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM-D257
Dielectric Constant	4.0	4.0	ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	Practical Use (Water Absorption 1.9%); 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	
Arc Resistance	130 sec	130 sec	ASTM-D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	305 - 320 °C	581 - 608 °F	
Mold Temperature	90.0 °C	194 °F	
Injection Pressure	30.0 - 40.0 MPa	4350 - 5800 psi	

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