

Toyobo GLAMIDE® TY-145TZ Nylon-6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Mineral 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 TY-145TZ is a mineral-reinforced Nylon-6 with smooth fluidity.25

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-TY-145TZ-Nylon-6.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 g/cc	1.33 g/cc	Absolute Drying; ASTM-D792
Filler Content	25 %	25 %	
Water Absorption	0.80 %	0.80 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	2.7 %	2.7 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm	0.0020 - 0.0030 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0040 - 0.0080 cm/cm	0.0040 - 0.0080 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	15 g/10 min	15 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	36.0 MPa	5220 psi	Practical Use (Water Absorption 2.7%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	45.0 MPa	6530 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	58.0 MPa	8410 psi	Practical Use (Water Absorption 2.7%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	85.0 MPa	12300 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	102 MPa	14800 psi	Practical Use (Water Absorption 2.7%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	107 MPa Metric	15500 psi English	Comments Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	5.0 %	5.0 %	Absolute Drying; ASTM-D638
	8.0 %	8.0 %	Practical Use (Water Absorption 2.7%); ASTM-D638
Flexural Strength	53.0 MPa	7690 psi	Practical Use (Water Absorption 2.7%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	78.0 MPa	11300 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	93.0 MPa	13500 psi	Practical Use (Water Absorption 2.7%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	140 MPa	20300 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	158 MPa	22900 psi	Practical Use (Water Absorption 2.7%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	168 MPa	24400 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	1.50 GPa	218 ksi	Practical Use (Water Absorption 2.7%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	3.70 GPa	537 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	4.60 GPa	667 ksi	Practical Use (Water Absorption 2.7%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	6.80 GPa	986 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	7.00 GPa	1020 ksi	Practical Use (Water Absorption 2.7%); 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	66.0 MPa	9570 psi	Practical Use (Water Absorption 2.7%); ASTM-D695
	97.0 MPa	14100 psi	Absolute Drying; ASTM-D695

Mechanical Properties <i>Izod Impact, Notched</i>	Metric <i>2.215 J/cm</i>	English <i>2.215 lb/in</i>	Comments <i>Absolute Drying; ASTM-D256</i>
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.680 J/cm	1.27 ft-lb/in	Practical Use (Water Absorption 2.7%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.800 J/cm	1.50 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.60 J/cm	4.87 ft-lb/in	Practical Use (Water Absorption 2.7%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	30	30	CS-17, Absolute Drying; ASTM-D1044

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 µm/m-°C	30.6 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	207 °C	405 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	155 °C	311 °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 2.7%); 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 2.7%); 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	
Arc Resistance	120 sec	120 sec	Practical Use (Water Absorption 2.7%); ASTM-D495
	130 sec	130 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	>= 600 V	>= 600 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 290 °C	500 - 554 °F	
Mold Temperature	60.0 - 100 °C	140 - 212 °F	

Processing Properties	Metric	English	Comments
Injection Pressure	40.0 ~ 60.0 MPa	5800 ~ 8700 psi	

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