

Toyobo GLAMIDE® TY-592GHV 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-592GHV is a flame resistant, aromatic 6T-Nylon. It is of halogen origin and contains 55% GF.55

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-TY-592GHV-6T-Nylon.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.81 g/cc	1.81 g/cc	Absolute Drying; ASTM-D792
Filler Content	55 %	55 %	
Water Absorption	0.10 %	0.10 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	0.80 %	0.80 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0030 - 0.0060 cm/cm	0.0030 - 0.0060 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	4.0 g/10 min	4.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	90.0 MPa	13100 psi	Practical Use (Water Absorption 0.8%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	170 MPa	24700 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	230 MPa	33400 psi	Practical Use (Water Absorption 0.8%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	245 MPa	35500 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	280 MPa	40600 psi	Practical Use (Water Absorption 0.8%); ASTM-D638

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	295 MPa	42800 psi	Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	1.8 %	1.8 %	Absolute Drying; ASTM-D638
Flexural Strength	125 MPa	18100 psi	Practical Use (Water Absorption 0.8%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	230 MPa	33400 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	310 MPa	45000 psi	Practical Use (Water Absorption 0.8%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	330 MPa	47900 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	380 MPa	55100 psi	Practical Use (Water Absorption 0.8%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	400 MPa	58000 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	8.10 GPa	1170 ksi	Practical Use (Water Absorption 0.8%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	15.0 GPa	2180 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	17.0 GPa	2470 ksi	Practical Use (Water Absorption 0.8%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	17.5 GPa	2540 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	18.0 GPa	2610 ksi	Practical Use (Water Absorption 0.8%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	19.0 GPa	2760 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	1.40 J/cm	2.62 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.40 J/cm	2.62 ft-lb/in	Practical Use (Water Absorption

Mechanical Properties	Metric @ Temperature -40.0 °C	English @ Temperature -40.0 °F	0.8%)- ASTM-D256 Comments
	1.50 J/cm @Temperature 23.0 °C	2.81 ft-lb/in @Temperature 73.4 °F	Absolute Drying; ASTM-D256
	1.80 J/cm @Temperature 23.0 °C	3.37 ft-lb/in @Temperature 73.4 °F	Practical Use (Water Absorption 0.8%); ASTM-D256

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 µm/m-°C	8.89 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	>= 270 °C	>= 518 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	264 °C	507 °F	Absolute Drying; ASTM-D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	ASTM-D257
Dielectric Constant	4.3 @Frequency 1000 Hz	4.3 @Frequency 1000 Hz	Absolute Drying; ASTM-D150
Dielectric Strength	25.0 kV/mm @Thickness 2.00 mm	635 kV/in @Thickness 0.0787 in	Practical Use (Water Absorption 0.8%); ASTM-D149
	26.0 kV/mm @Thickness 2.00 mm	660 kV/in @Thickness 0.0787 in	Absolute Drying; ASTM-D149
Dissipation Factor	0.010 @Frequency 1000 Hz	0.010 @Frequency 1000 Hz	Absolute Drying; ASTM-D150
Arc Resistance	25 sec	25 sec	ASTM-D495
Comparative Tracking Index	350 V	350 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	310 - 330 °C	590 - 626 °F	
Mold Temperature	150 °C	302 °F	
Injection Pressure	135 MPa	19600 psi	

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