

Toyobo GLAMIDE® TY-791HT 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-791HT is a GF/mineral reinforced, aromatic 6T-Nylon with high rigidity and good weather resistance. It also has a good finish of coating.60

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-TY-791HT-6T-Nylon.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.74 g/cc	1.74 g/cc	Absolute Drying; ASTM-D792
Filler Content	60 %	60 %	
Water Absorption	0.60 %	0.60 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	1.4 %	1.4 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	9.0 g/10 min	9.0 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	77.0 MPa	11200 psi	Practical Use (Water Absorption 1.4%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	97.0 MPa	14100 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	134 MPa	19400 psi	Practical Use (Water Absorption 1.4%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	180 MPa	26100 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	195 MPa	28300 psi	Practical Use (Water Absorption 1.4%); ASTM-D638

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	220 MPa	31900 psi	Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	1.3 %	1.3 %	ASTM-D638
Flexural Strength	112 MPa	16200 psi	Practical Use (Water Absorption 1.4%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	135 MPa	19600 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	210 MPa	30500 psi	Practical Use (Water Absorption 1.4%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	250 MPa	36300 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	280 MPa	40600 psi	Practical Use (Water Absorption 1.4%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	305 MPa	44200 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	7.30 GPa	1060 ksi	Practical Use (Water Absorption 1.4%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	8.80 GPa	1280 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	17.8 GPa	2580 ksi	Practical Use (Water Absorption 1.4%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	18.5 GPa	2680 ksi	Practical Use (Water Absorption 1.4%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	18.5 GPa	2680 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	19.0 GPa	2760 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	0.650 J/cm	1.22 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.700 J/cm	1.31 ft-lb/in	Practical Use (Water Absorption

Mechanical Properties	Metric	English	Comments
	0.750 J/cm @Temperature -40.0 °C	1.41 ft-lb/in @Temperature -40.0 °F	1.4%; ASTM-D256 Absolute Drying; ASTM-D256
	0.850 J/cm @Temperature 23.0 °C	1.59 ft-lb/in @Temperature 73.4 °F	Practical Use (Water Absorption 1.4%); ASTM-D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	Absolute Drying; ASTM-D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	Practical Use (Water Absorption 1.4%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	21.0 kV/mm @Thickness 2.00 mm	533 kV/in @Thickness 0.0787 in	Practical Use (Water Absorption 1.4%); ASTM-D149
	28.0 kV/mm @Thickness 2.00 mm	711 kV/in @Thickness 0.0787 in	Absolute Drying; ASTM-D149

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	80.0 - 100 °C	176 - 212 °F	
Injection Pressure	50.0 - 90.0 MPa	7250 - 13100 psi	

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