Toyobo GLAMIDE® TY-835TC Nylon-66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% 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-835TC is a mineral-reinforced Nylon-66 with a fine surface and thermal discoloration resistance.20

Order this product through the following link:
http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-TY-835TC-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	Absolute Drying; ASTM-D792
Filler Content	20 %	20 %	
Water Absorption	0.50 %	0.50 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0030 - 0.0060 cm/cm @Thickness 1.00 mm	0.0030 - 0.0060 in/in @Thickness 0.0394 in	Absolute Drying
	0.0060 - 0.010 cm/cm @Thickness 3.00 mm	0.0060 - 0.010 in/in @Thickness 0.118 in	Absolute Drying
Melt Flow	25 g/10 min	25 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	40.0 MPa @Temperature 80.0 °C	5800 psi @Temperature 176 °F	Practical Use; ASTM-D638
	48.0 MPa @Temperature 80.0 °C	6960 psi @Temperature 176 °F	Absolute Drying; ASTM-D638
	58.0 MPa @Temperature 23.0 °C	8410 psi @Temperature 73.4 °F	Practical Use; ASTM-D638
	80.0 MPa @Temperature 23.0 °C	11600 psi @Temperature 73.4 °F	Absolute Drying; ASTM-D638
	96.0 MPa @Temperature -40.0 °C	13900 psi @Temperature -40.0 °F	Practical Use; ASTM-D638
	100 MPa	14500 psi	

Mechanical Properties	Metric	English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	Absolute Drying; ASTM-D638
Elongation at Break	5.2 %	5.2 %	Absolute Drying; ASTM-D638
	8.0 %	8.0 %	Practical Use; ASTM-D638
Flexural Strength	57.0 MPa @Temperature 80.0 °C	8270 psi @Temperature 176 °F	Practical Use; ASTM-D790
	80.0 MPa @Temperature 80.0 °C	11600 psi @Temperature 176 °F	Absolute Drying; ASTM-D790
	90.0 MPa @Temperature 23.0 °C	13100 psi @Temperature 73.4 °F	Practical Use; ASTM-D790
	130 MPa @Temperature 23.0 °C	18900 psi @Temperature 73.4 °F	Absolute Drying; ASTM-D790
	153 MPa @Temperature -40.0 °C	22200 psi @Temperature -40.0 °F	Practical Use; ASTM-D790
	160 MPa @Temperature -40.0 °C	23200 psi @Temperature -40.0 °F	Absolute Drying; ASTM-D790
Flexural Modulus	1.60 GPa @Temperature 80.0 °C	232 ksi @Temperature 176 °F	Practical Use; ASTM-D790
	3.50 GPa @Temperature 80.0 °C	508 ksi @Temperature 176 °F	Absolute Drying; ASTM-D790
	3.80 GPa @Temperature 23.0 °C	551 ksi @Temperature 73.4 °F	Practical Use; ASTM-D790
	5.30 GPa @Temperature 23.0 °C	769 ksi @Temperature 73.4 °F	Absolute Drying; ASTM-D790
	5.60 GPa @Temperature -40.0 °C	812 ksi @Temperature -40.0 °F	Practical Use; ASTM-D790
	6.40 GPa @Temperature -40.0 °C	928 ksi @Temperature -40.0 °F	Absolute Drying; ASTM-D790
Compressive Strength	62.0 MPa	8990 psi	Practical Use; ASTM-D695
	90.0 MPa	13100 psi	Absolute Drying; ASTM-D695
	0.200 J/cm	0.375 ft-lb/in	

Mechanical Properties	Metric	English	Comments
Izod Impact, Notched	@Temperature 23.0 °C	@Temperature 73.4 °F	Practical Use; ASTM-D256
	0.350 J/cm @Temperature -40.0 °C	0.656 ft-lb/in @Temperature -40.0 °F	Absolute Drying; ASTM-D256
	0.450 J/cm @Temperature -40.0 °C	0.843 ft-lb/in @Temperature -40.0 °F	Practical Use; ASTM-D256
	0.530 J/cm @Temperature 23.0 °C	0.993 ft-lb/in @Temperature 73.4 °F	Absolute Drying; ASTM-D256
Taber Abrasion, mg/1000 Cycles	30	30	CS-17, Absolute Drying; ASTM-D1044

Thermal Properties	Metric	English	Comments
CTE, linear	58.0 µm/m-°C	32.2 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °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; ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	16.0 kV/mm @Thickness 2.00 mm	406 kV/in @Thickness 0.0787 in	2mmt, Practical Use; ASTM-D149
	24.0 kV/mm @Thickness 2.00 mm	610 kV/in @Thickness 0.0787 in	Absolute Drying; ASTM-D149
Arc Resistance	120 sec	120 sec	Practical Use; 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	270 - 300 °C	518 - 572 °F	
Mold Temperature	60.0 °C	140 °F	
Injection Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

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