

Toyobo GLAMIDE® T-663G30 Nylon-66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 30% Glass Fiber 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 T-663G30 is a GF reinforced Nylon-66. It contains 30% GF.30

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-663G30-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	Absolute Drying; ASTM-D792
Filler Content	30 %	30 %	
Water Absorption	0.60 %	0.60 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	1.7 %	1.7 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 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	121	121	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	100 MPa	14500 psi	Practical Use (Water Absorption 1.75%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	120 MPa	17400 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	145 MPa	21000 psi	Practical Use (Water Absorption 1.75%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	195 MPa	28300 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	215 MPa	31200 psi	Practical Use (Water Absorption 1.75%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	235 MPa Metric	34100 psi English	Comments Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	3.2 %	3.2 %	Absolute Drying; ASTM-D638
	3.9 %	3.9 %	Practical Use (Water Absorption 1.75%); ASTM-D638
Flexural Strength	130 MPa	18900 psi	Practical Use (Water Absorption 1.75%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	185 MPa	26800 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	210 MPa	30500 psi	Practical Use (Water Absorption 1.75%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	280 MPa	40600 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	300 MPa	43500 psi	Practical Use (Water Absorption 1.75%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	315 MPa	45700 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	4.00 GPa	580 ksi	Practical Use (Water Absorption 1.75%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	5.40 GPa	783 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	5.80 GPa	841 ksi	Practical Use (Water Absorption 1.75%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	8.70 GPa	1260 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.80 GPa	1420 ksi	Practical Use (Water Absorption 1.75%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	10.8 GPa	1570 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	0.800 J/cm Metric	1.50 ft-lb/in English	Practical Use (Water Absorption 1.75%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.10 J/cm	2.06 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.40 J/cm	2.62 ft-lb/in	Practical Use (Water Absorption 1.75%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	262 °C	504 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	255 °C	491 °F	Absolute Drying; ASTM-D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 - 1.00e+10 ohm-cm	1.00e+9 - 1.00e+10 ohm-cm	Practical Use (Water Absorption 1.75%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Constant	4.1	4.1	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	Practical Use (Water Absorption 1.75%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	26.0 kV/mm	660 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	92 sec	92 sec	Practical Use (Water Absorption 1.75%); ASTM-D495
	100 sec	100 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	575 V	575 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 310 °C	536 - 590 °F	
Mold Temperature	60.0 °C	140 °F	
Injection Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

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