

Toyobo GLAMIDE® T-663G15 Nylon-66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 20% 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-663G15 is a GF reinforced Nylon-66. It contains 15% GF.15

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-663G15-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	Absolute Drying; ASTM-D792
Filler Content	15 %	15 %	
Water Absorption	1.0 %	1.0 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	2.1 %	2.1 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0080 - 0.011 cm/cm	0.0080 - 0.011 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	10 g/10 min	10 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	45.0 MPa	6530 psi	Practical Use (Water Absorption 2.1%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	60.0 MPa	8700 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	90.0 MPa	13100 psi	Practical Use (Water Absorption 2.1%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	120 MPa	17400 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	145 MPa	21000 psi	Practical Use (Water Absorption 2.1%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	160 MPa Metric	23200 psi English	Comments Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	3.5 %	3.5 %	Absolute Drying; ASTM-D638
	7.0 %	7.0 %	Practical Use (Water Absorption 2.1%); ASTM-D638
Flexural Strength	75.0 MPa	10900 psi	Practical Use (Water Absorption 2.1%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	100 MPa	14500 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	120 MPa	17400 psi	Practical Use (Water Absorption 2.1%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	160 MPa	23200 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	170 MPa	24700 psi	Practical Use (Water Absorption 2.1%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	200 MPa	29000 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	2.10 GPa	305 ksi	Practical Use (Water Absorption 2.1%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	2.50 GPa	363 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	3.50 GPa	508 ksi	Practical Use (Water Absorption 2.1%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.40 GPa	783 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.90 GPa	856 ksi	Practical Use (Water Absorption 2.1%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	6.20 GPa	899 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	0.500 J/cm	0.937 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	0.550 J/cm Metric	1.03 ft-lb/in English	Practical Use (Water Absorption 2.1%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.700 J/cm	1.31 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.10 J/cm	2.06 ft-lb/in	Practical Use (Water Absorption 2.1%); 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)	245 °C	473 °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 2.1%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Constant	4.0	4.0	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	18.0 kV/mm	457 kV/in	Practical Use (Water Absorption 2.1%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	24.0 kV/mm	610 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Dissipation Factor	0.010	0.010	Absolute Drying; ASTM-D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Arc Resistance	90 sec	90 sec	Practical Use (Water Absorption 2.1%); ASTM-D495
	110 sec	110 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 Processing Properties	30.0 - 60.0 MPa Metric	4350 - 8700 psi English	Comments
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