

Toyobo GLAMIDE® T-663G50 Nylon-66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 50% 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-663G50 is a GF reinforced Nylon-66. It contains 50% GF.50

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-663G50-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	Absolute Drying; ASTM-D792
Filler Content	50 %	50 %	
Water Absorption	0.40 %	0.40 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	1.2 %	1.2 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 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	121	121	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	115 MPa	16700 psi	Practical Use (Water Absorption 1.25%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	145 MPa	21000 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	160 MPa	23200 psi	Practical Use (Water Absorption 1.25%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	215 MPa	31200 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	250 MPa	36300 psi	Practical Use (Water Absorption 1.25%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	280 MPa Metric	40600 psi English	Comments Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	2.0 %	2.0 %	Absolute Drying; ASTM-D638
	2.2 %	2.2 %	Practical Use (Water Absorption 1.25%); ASTM-D638
Flexural Strength	175 MPa	25400 psi	Practical Use (Water Absorption 1.25%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	210 MPa	30500 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	260 MPa	37700 psi	Practical Use (Water Absorption 1.25%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	305 MPa	44200 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	310 MPa	45000 psi	Practical Use (Water Absorption 1.25%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	335 MPa	48600 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	6.60 GPa	957 ksi	Practical Use (Water Absorption 1.25%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	7.90 GPa	1150 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	10.0 GPa	1450 ksi	Practical Use (Water Absorption 1.25%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	12.5 GPa	1810 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	13.0 GPa	1890 ksi	Practical Use (Water Absorption 1.25%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	14.0 GPa	2030 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	1.10 J/cm	2.06 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	1.20 J/cm Metric	2.25 ft-lb/in English	Practical Use (Water Absorption 1.25%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.50 J/cm	2.81 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.80 J/cm	3.37 ft-lb/in	Practical Use (Water Absorption 1.25%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	19.0 µm/m-°C	10.6 µin/in-°F	Absolute Drying; ASTM-D696
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+10 ohm-cm	1.00e+10 ohm-cm	Practical Use (Water Absorption 1.25%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	21.0 kV/mm	533 kV/in	Practical Use (Water Absorption 1.25%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	28.0 kV/mm	711 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	93 sec	93 sec	Practical Use (Water Absorption 1.25%); ASTM-D495
	100 sec	100 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	550 V	550 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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