

Toyobo GLAMIDE® T-663G50A MXD66

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 T-663G50A is a GF reinforced, aromatic MXD66 nylon. It has a good appearance and contains 50% GF.50

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-663G50A-MXD66.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	0.30 %	0.30 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	0.80 %	0.80 %	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	5.0 g/10 min	5.0 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 0.8%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	112 MPa	16200 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	165 MPa	23900 psi	Practical Use (Water Absorption 0.8%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	220 MPa	31900 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	245 MPa	35500 psi	Practical Use (Water Absorption 0.8%); ASTM-D638

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	270 MPa	39200 psi	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 0.8%); ASTM-D638
Flexural Strength	155 MPa	22500 psi	Practical Use (Water Absorption 0.8%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	175 MPa	25400 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	260 MPa	37700 psi	Practical Use (Water Absorption 0.8%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	330 MPa	47900 psi	Practical Use (Water Absorption 0.8%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	345 MPa	50000 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	360 MPa	52200 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	5.90 GPa	856 ksi	Practical Use (Water Absorption 0.8%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	7.00 GPa	1020 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	12.5 GPa	1810 ksi	Practical Use (Water Absorption 0.8%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	15.0 GPa	2180 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	15.1 GPa	2190 ksi	Practical Use (Water Absorption 0.8%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	16.0 GPa	2320 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Compressive Strength	180 MPa	26100 psi	Absolute Drying; ASTM-D695

Mechanical Properties	Metric	English	Comments
	1.40 J/cm	2.62 ft-lb/in	Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.50 J/cm	2.81 ft-lb/in	Practical Use (Water Absorption 0.8%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.70 J/cm	3.18 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.90 J/cm	3.56 ft-lb/in	Practical Use (Water Absorption 0.8%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 µm/m-°C	10.0 µin/in-°F	Absolute Drying; ASTM-D696
Deflection Temperature at 0.46 MPa (66 psi)	250 °C	482 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	243 °C	469 °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 0.8%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	20.0 kV/mm	508 kV/in	Practical Use (Water Absorption 0.8%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	25.0 kV/mm	635 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	33 sec	33 sec	Practical Use (Water Absorption 0.8%); ASTM-D495
	40 sec	40 sec	Absolute Drying; ASTM-D495
Comparative Tracking Index	550 V	550 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 300 °C	518 - 572 °F	
Mold Temperature	120 - 140 °C	248 - 284 °F	
Injection Pressure	40.0 - 80.0 MPa	5800 - 11600 psi	

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