

Toyobo GLAMIDE® T-602G30 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-602G30 is a GF reinforced, aromatic MXD66 nylon. It has a good appearance and contains 30% GF.30

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-602G30-MXD66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.36 g/cc	1.36 g/cc	Absolute Drying; ASTM-D792
Filler Content	30 %	30 %	
Water Absorption	0.80 %	0.80 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	1.7 %	1.7 %	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	
	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	
Melt Flow	22 g/10 min	22 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	72.0 MPa	10400 psi	Practical Use (Water Absorption 1.7%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	100 MPa	14500 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	115 MPa	16700 psi	Practical Use (Water Absorption 1.7%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	190 MPa	27600 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	235 MPa	34100 psi	Practical Use (Water Absorption 1.7%); ASTM-D638

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	260 MPa	37700 psi	Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	3.6 %	3.6 %	Absolute Drying; ASTM-D638
	4.2 %	4.2 %	Practical Use (Water Absorption 1.7%); ASTM-D638
Flexural Strength	95.0 MPa	13800 psi	Practical Use (Water Absorption 1.7%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	120 MPa	17400 psi	Practical Use (Water Absorption 1.7%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	140 MPa	20300 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	230 MPa	33400 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	250 MPa	36300 psi	Practical Use (Water Absorption 1.7%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	260 MPa	37700 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	3.20 GPa	464 ksi	Practical Use (Water Absorption 1.7%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	4.00 GPa	580 ksi	Practical Use (Water Absorption 1.7%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	4.00 GPa	580 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	8.50 GPa	1230 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	9.20 GPa	1330 ksi	Practical Use (Water Absorption 1.7%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	10.0 GPa	1450 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	0.650 J/cm	1.22 ft-lb/in	Absolute Drying; ASTM-D256

Mechanical Properties	Metric @Temperature -40.0 °C	English @Temperature -40.0 °F	Comments
	0.806 J/cm	1.50 ft-lb/in	Practical Use (Water Absorption 1.7%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.25 J/cm	2.34 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.10 J/cm	3.93 ft-lb/in	Practical Use (Water Absorption 1.7%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	217 °C	423 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °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 1.7%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	17.0 kV/mm	432 kV/in	Practical Use (Water Absorption 1.7%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	23.0 kV/mm	584 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	90 sec	90 sec	Practical Use (Water Absorption 1.7%); 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	250 - 290 °C	482 - 554 °F	
Mold Temperature	60.0 °C	140 °F	
Injection Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

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