

Toyobo GLAMIDE® T-665C30 Nylon-66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , 30% Carbon 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-665C30 is a CF reinforced Nylon-66. It has good electro-conductivity and contains 30% CF.30

Order this product through the following link:

http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-665C30-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.27 g/cc	1.27 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	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	105 MPa	15200 psi	Practical Use (Water Absorption 1.75%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	132 MPa	19100 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	150 MPa	21800 psi	Practical Use (Water Absorption 1.75%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	216 MPa	31300 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	235 MPa	34100 psi	Practical Use (Water Absorption 1.75%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	260 MPa	37700 psi	

Mechanical Properties	Metric @ Temperature -40.0 °C	English @ Temperature -40.0 °F	Absolute Drying; ASTM-D638 Comments
Elongation at Break	2.4 %	2.4 %	Absolute Drying; ASTM-D638
	3.0 %	3.0 %	Practical Use (Water Absorption 1.75%); ASTM-D638
Flexural Strength	140 MPa @Temperature 80.0 °C	20300 psi @Temperature 176 °F	Practical Use (Water Absorption 1.75%); ASTM-D790
	210 MPa @Temperature 80.0 °C	30500 psi @Temperature 176 °F	Absolute Drying; ASTM-D790
	215 MPa @Temperature 23.0 °C	31200 psi @Temperature 73.4 °F	Practical Use (Water Absorption 1.75%); ASTM-D790
	300 MPa @Temperature 23.0 °C	43500 psi @Temperature 73.4 °F	Absolute Drying; ASTM-D790
	320 MPa @Temperature -40.0 °C	46400 psi @Temperature -40.0 °F	Practical Use (Water Absorption 1.75%); ASTM-D790
	337 MPa @Temperature -40.0 °C	48900 psi @Temperature -40.0 °F	Absolute Drying; ASTM-D790
	7.20 GPa @Temperature 80.0 °C	1040 ksi @Temperature 176 °F	Practical Use (Water Absorption 1.75%); ASTM-D790
	10.0 GPa @Temperature 23.0 °C	1450 ksi @Temperature 73.4 °F	Practical Use (Water Absorption 1.75%); ASTM-D790
Flexural Modulus	10.0 GPa @Temperature 80.0 °C	1450 ksi @Temperature 176 °F	Absolute Drying; ASTM-D790
	15.6 GPa @Temperature 23.0 °C	2260 ksi @Temperature 73.4 °F	Absolute Drying; ASTM-D790
	17.2 GPa @Temperature -40.0 °C	2490 ksi @Temperature -40.0 °F	Practical Use (Water Absorption 1.75%); ASTM-D790
	19.0 GPa @Temperature -40.0 °C	2760 ksi @Temperature -40.0 °F	Absolute Drying; ASTM-D790
	0.720 J/cm @Temperature -40.0 °C	1.35 ft-lb/in @Temperature -40.0 °F	Absolute Drying; ASTM-D256
	0.800 J/cm	1.50 ft-lb/in	Practical Use (Water Absorption

Mechanical Properties	Metric	English	Comments
	1.20 J/cm @Temperature -40.0 °C	2.25 ft-lb/in @Temperature -40.0 °F	1.75%; ASTM-D256 Absolute Drying; ASTM-D256
	1.50 J/cm @Temperature 23.0 °C	2.81 ft-lb/in @Temperature 73.4 °F	Practical Use (Water Absorption 1.75%); ASTM-D256
Taber Abrasion, mg/1000 Cycles	6.0	6.0	CS-17, Absolute Drying; ASTM-D1044

Thermal Properties	Metric	English	Comments
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	0.010 ohm-cm	0.010 ohm-cm	Absolute Drying; ASTM-D257

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 300 °C	518 - 572 °F	
Mold Temperature	60.0 - 140 °C	140 - 284 °F	
Injection Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

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