

## Toyobo GLAMIDE® T-402 Nylon-6

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% 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-402 is a GF reinforced Nylon-6. It contains 30% GF.30

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Toyobo-GLAMIDE-T-402-Nylon-6.php](http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-402-Nylon-6.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	1.3 %	1.3 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	2.5 %	2.5 %	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	19 g/10 min	19 g/10 min	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	70.0 MPa	10200 psi	Practical Use (Water Absorption 2.5%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	100 MPa	14500 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	105 MPa	15200 psi	Practical Use (Water Absorption 2.5%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	170 MPa	24700 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	220 MPa	31900 psi	Practical Use (Water Absorption 2.5%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	245 MPa Metric	35500 psi English	Comments Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Elongation at Break	3.6 %	3.6 %	Absolute Drying; ASTM-D638
	5.6 %	5.6 %	Practical Use (Water Absorption 2.5%); ASTM-D638
Flexural Strength	100 MPa	14500 psi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	130 MPa	18900 psi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	150 MPa	21800 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	260 MPa	37700 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	290 MPa	42100 psi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	305 MPa	44200 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Flexural Modulus	3.40 GPa	493 ksi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	4.50 GPa	653 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	5.00 GPa	725 ksi	Practical Use (Water Absorption 2.5%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °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 2.5%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	10.8 GPa	1570 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Compressive Strength	155 MPa	22500 psi	Absolute Drying; ASTM-D695
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	Absolute Drying; ASTM-D256

Mechanical Properties	@Temperature -40.0 °C Metric	@Temperature -40.0 °F English	Comments
	0.850 J/cm	1.59 ft-lb/in	Practical Use (Water Absorption 2.5%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.20 J/cm	2.25 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.00 J/cm	3.75 ft-lb/in	Practical Use (Water Absorption 2.5%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 µm/m-°C	13.9 µin/in-°F	Absolute Drying; ASTM-D696
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+9 ohm-cm	1.00e+9 ohm-cm	Practical Use (Water Absorption 2.5%); 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 2.5%); 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 2.5%); ASTM-D495
	100 sec	100 sec	Absolute Drying; ASTM-D495

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 °C	500 - 536 °F	
Mold Temperature	60.0 °C	140 °F	
Injection Pressure	30.0 - 60.0 MPa	4350 - 8700 psi	

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