

## Toyobo GLAMIDE® T-656E Nylon-66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Unreinforced, Flame Retardant

### 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-656E is a non-reinforced Nylon-66 with high abrasion resistance.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Toyobo-GLAMIDE-T-656E-Nylon-66.php](http://www.lookpolymers.com/polymer_Toyobo-GLAMIDE-T-656E-Nylon-66.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	Absolute Drying; ASTM-D792
Water Absorption	1.1 %	1.1 %	Absolute Drying; ASTM-D570
Moisture Absorption at Equilibrium	2.4 %	2.4 %	Absolute Drying; ASTM-D570
Linear Mold Shrinkage	0.0060 - 0.012 cm/cm	0.0060 - 0.012 in/in	Absolute Drying
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	0.015 - 0.022 cm/cm	0.015 - 0.022 in/in	Absolute Drying
	@Thickness 3.00 mm	@Thickness 0.118 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	Absolute Drying; ASTM-D785
Tensile Strength, Ultimate	24.0 MPa	3480 psi	Practical Use (Water Absorption 2.4%); ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	30.0 MPa	4350 psi	Absolute Drying; ASTM-D638
	@Temperature 80.0 °C	@Temperature 176 °F	
	45.0 MPa	6530 psi	Practical Use (Water Absorption 2.4%); ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	70.0 MPa	10200 psi	Absolute Drying; ASTM-D638
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	90.0 MPa	13100 psi	Practical Use (Water Absorption 2.4%); ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	95.0 MPa	13800 psi	Absolute Drying; ASTM-D638
	@Temperature -40.0 °C	@Temperature -40.0 °F	

<b>Elongation at Break Mechanical Properties</b>	<b>52 % Metric</b>	<b>52 % English</b>	<b>Absolute Drying; ASTM-D638 Comments</b>
	>= 200 %	>= 200 %	Practical Use (Water Absorption 2.4%); ASTM-D638
<b>Flexural Strength</b>	38.0 MPa	5510 psi	Practical Use (Water Absorption 2.4%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	50.0 MPa	7250 psi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	70.0 MPa	10200 psi	Practical Use (Water Absorption 2.4%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	96.0 MPa	13900 psi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	115 MPa	16700 psi	Practical Use (Water Absorption 2.4%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	125 MPa	18100 psi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
<b>Flexural Modulus</b>	0.400 GPa	58.0 ksi	Practical Use (Water Absorption 2.4%); ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	0.800 GPa	116 ksi	Absolute Drying; ASTM-D790
	@Temperature 80.0 °C	@Temperature 176 °F	
	1.30 GPa	189 ksi	Practical Use (Water Absorption 2.4%); ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.70 GPa	392 ksi	Absolute Drying; ASTM-D790
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.90 GPa	421 ksi	Practical Use (Water Absorption 2.4%); ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	3.10 GPa	450 ksi	Absolute Drying; ASTM-D790
	@Temperature -40.0 °C	@Temperature -40.0 °F	
<b>Izod Impact, Notched</b>	1.00 J/cm	1.87 ft-lb/in	Absolute Drying; ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.30 J/cm	2.44 ft-lb/in	Practical Use (Water Absorption 2.4%); ASTM-D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	1.45 J/cm Metric	2.72 ft-lb/in English	Absolute Drying; ASTM-D256 Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 4.00 J/cm	>= 7.49 ft-lb/in	Practical Use (Water Absorption 2.4%); ASTM-D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Taber Abrasion, mg/1000 Cycles	<= 5.0	<= 5.0	CS-17, Absolute Drying; ASTM-D1044

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	Absolute Drying; ASTM-D648
Deflection Temperature at 1.8 MPa (264 psi)	68.0 °C	154 °F	Absolute Drying; ASTM-D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+9 - 1.00e+10 ohm-cm	1.00e+9 - 1.00e+10 ohm-cm	Practical Use (Water Absorption 2.4%); ASTM-D257
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Absolute Drying; ASTM-D257
Dielectric Strength	14.0 kV/mm	356 kV/in	Practical Use (Water Absorption 2.4%); ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Arc Resistance	21.0 kV/mm	533 kV/in	Absolute Drying; ASTM-D149
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Comparative Tracking Index	110 sec	110 sec	Practical Use (Water Absorption 2.4%); ASTM-D495
	120 sec	120 sec	Absolute Drying; ASTM-D495
	>= 600 V	>= 600 V	IEC Method

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 °C	518 - 554 °F	
Mold Temperature	40.0 - 80.0 °C	104 - 176 °F	
Injection Pressure	30.0 - 40.0 MPa	4350 - 5800 psi	

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