

Unitika A175G15 PA66, 15% Glass Fiber Reinforced, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Glass Fiber Filled

Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-A175G15-PA66-15-Glass-Fiber-Reinforced-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.26 g/cc	0.0455 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.9 %	1.9 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm @Thickness 3.20 mm	0.0060 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.015 cm/cm @Thickness 3.20 mm	0.015 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	73.0 MPa	10600 psi	ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	ISO 527-1/-2
Tensile Modulus	3.50 GPa	508 ksi	ISO 527-1/-2
Flexural Strength	110 MPa	16000 psi	ISO 178
Flexural Modulus	3.20 GPa	464 ksi	ISO 178
Charpy Impact Unnotched	3.90 J/cm ²	18.6 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	42.0 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	23.3 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359-2
Flammability, UL94	HB @Thickness 0.840 mm	HB @Thickness 0.0331 in	

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