

Unitika A125 PA66, Dry

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

Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-A125-PA66-Dry.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	2.3 %	2.3 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.016 cm/cm @Thickness 3.20 mm	0.016 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.022 cm/cm @Thickness 3.20 mm	0.022 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ISO 2039
Tensile Strength, Yield	82.0 MPa	11900 psi	ISO 527-1/-2
Elongation at Break	30 %	30 %	ISO 527-1/-2
Tensile Modulus	3.00 GPa	435 ksi	ISO 527-1/-2
Flexural Strength	113 MPa	16400 psi	ISO 178
Flexural Modulus	3.00 GPa	435 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179-1
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	90.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	50.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	195 $^{\circ}\text{C}$	383 $^{\circ}\text{F}$	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	70.0 $^{\circ}\text{C}$	158 $^{\circ}\text{F}$	ISO 75-1/-2
Flammability, UL94	V-2 @Thickness 0.810 mm	V-2 @Thickness 0.0319 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	IEC 60093
Dielectric Constant	3.4 @Frequency 1.00e+6 Hz	3.4 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	32.0 kV/mm @Thickness 1.00 mm	813 kV/in @Thickness 0.0394 in	IEC 60243-1
Dissipation Factor	0.040 @Frequency 1.00e+6 Hz	0.040 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112

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