

Unitika A1025GO PA6, Flame Retardant, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced, Flame Retardant

Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-A1025GO-PA6-Flame-Retardant-Dry.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	1.0 %	1.0 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ISO 2039
Tensile Strength at Break	148 MPa	21500 psi	ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	ISO 527-1/-2
Tensile Modulus	10.8 GPa	1570 ksi	ISO 527-1/-2
Flexural Strength	250 MPa	36300 psi	ISO 178
Flexural Modulus	9.20 GPa	1330 ksi	ISO 178
Charpy Impact Unnotched	2.20 J/cm ²	10.5 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	30.0 μm/m-°C	16.7 μin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75-1/-2
Flammability, UL94	V-0	V-0	
	@Thickness 0.870 mm	@Thickness 0.0343 in	

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	IEC 60243-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.020	0.020	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	

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