

Unitika A1025GO PA6, Flame Retardant, Conditioned

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-Conditioned.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 @Thickness 3.20 mm	0.0020 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm @Thickness 3.20 mm	0.0070 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	102	102	ISO 2039
Tensile Strength at Break	110 MPa	16000 psi	ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	ISO 527-1/-2
Tensile Modulus	7.00 GPa	1020 ksi	ISO 527-1/-2
Flexural Strength	140 MPa	20300 psi	ISO 178
Flexural Modulus	6.00 GPa	870 ksi	ISO 178
Charpy Impact Unnotched	3.10 J/cm ²	14.8 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	1.40 J/cm ²	6.66 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
Flammability, UL94	V-0 @Thickness 0.870 mm	V-0 @Thickness 0.0343 in	

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