

Addiplast Addinyl B2 E Flame Retardant Nylon 6

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

Material Notes:

Flame retardant, halogen free Information provided by Addiplast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Addiplast-Addinyl-B2-E-Flame-Retardant-Nylon-6.php

Physical Properties	Metric	English	Comments
Density	1.17 g/cc	0.0423 lb/in ³	ISO 1183/A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	77	77	Conditioned; ISO 868
	83	83	ISO 868
Tensile Strength at Break	45.0 MPa	6530 psi	Conditioned; ISO R 527
	60.0 MPa	8700 psi	ISO R 527
Tensile Strength, Yield	40.0 MPa	5800 psi	Conditioned; ISO R 527
	75.0 MPa	10900 psi	ISO R 527
Elongation at Break	10 %	10 %	ISO R 527
	30 %	30 %	Conditioned; ISO R 527
Modulus of Elasticity	1.00 GPa	145 ksi	Conditioned; ISO 178
	3.00 GPa	435 ksi	ISO 178
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 ft-lb/in ²	ISO 180/1A
	10.0 kJ/m ²	4.76 ft-lb/in ²	Conditioned; ISO 180/1A
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	NB	NB	Conditioned; ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	Conditioned; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ISO 3146/C2
Deflection Temperature at 1.8 MPa	65.0 °C	149 °F	

Thermal Properties	Metric	English	ISO 75-2/AF Comments
Flammability, UL94	V-2	V-2	
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Oxygen Index	30 %	30 %	ISO 4589
Glow Wire Test	960 °C	1760 °F	CEI 60695/2/1

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+12 ohm-cm	1.00e+12 ohm-cm	Conditioned; CEI 60093
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	CEI 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	Conditioned; CEI 60093
	1.00e+14 ohm	1.00e+14 ohm	CEI 60093
Dielectric Strength	26.0 kV/mm	660 kV/in	CEI 60243-1
Comparative Tracking Index	>= 600 V	>= 600 V	CEI 60112/Solution A

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