

Addiplast Addinyl B2 V50 Nylon 6, 50% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 50% Glass Fiber Filled

Material Notes:

Glass fiber reinforced, high strength Information provided by Addiplast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Addiplast-Addinyl-B2-V50-Nylon-6-50-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	ISO 1183/A

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	78	78	Conditioned; ISO 868
	84	84	ISO 868
Tensile Strength at Break	140 MPa	20300 psi	Conditioned; ISO R 527
	220 MPa	31900 psi	ISO R 527
Elongation at Yield	2.0 %	2.0 %	ISO R 527
	3.0 %	3.0 %	Conditioned; ISO R 527
Modulus of Elasticity	7.50 GPa	1090 ksi	Conditioned; ISO 178
	14.5 GPa	2100 ksi	ISO 178
Izod Impact, Notched (ISO)	20.0 kJ/m ²	9.52 ft-lb/in ²	ISO 180/1A
	24.0 kJ/m ²	11.4 ft-lb/in ²	Conditioned; ISO 180/1A
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179/leU
	7.50 J/cm ²	35.7 ft-lb/in ²	Conditioned; ISO 179/leU
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	ISO 179/leA
	2.00 J/cm ²	9.52 ft-lb/in ²	Conditioned; ISO 179/leA

Thermal Properties	Metric	English	Comments
CTE, linear	20.0 μm/m-°C	11.1 μin/in-°F	ASTM E831
Melting Point	220 °C	428 °F	ISO 3146/C2
Deflection Temperature at 1.8 MPa (264 psi)	215 °C	419 °F	ISO 75-2/AF

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	Conditioned; CEI 60093
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	CEI 60093
Dielectric Strength	30.0 kV/mm	762 kV/in	Conditioned; CEI 60243-1
	35.0 kV/mm	889 kV/in	CEI 60243-1
Comparative Tracking Index	550 V	550 V	CEI 60112/Solution A

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