

Akro-Plastic Akromid® B3 GF 50 (2475) PA 6 Conditioned, 50% Glass Filled

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

Material Notes:

AKROMID® B (Polyamide 6) is an engineering compound, characterized by high mechanical strength, stiffness and thermal resistance.

Furthermore, this polyamide offers high toughness at low temperatures as well as easy processing. AKROMID® B is an engineering plastic compound that allows a broad range of possible applications. On the basis of these standard types, we are able to develop individual compounds for special application needs. Information from Akro-Plastic

Order this product through the following link:

http://www.lookpolymers.com/polymer_Akro-Plastic-Akromid-B3-GF-50-2475-PA-6-Conditioned-50-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.56 g/cc	0.0564 lb/in ³	ISO 1183
Filler Content	50 %	50 %	ISO 1172
Water Absorption	1.3 - 1.6 % @Temperature 70.0 °C	1.3 - 1.6 % @Temperature 158 °F	62% r.h., Humidity; ISO 62
Water Absorption at Saturation	4.5 - 5.1 % @Time 82800 sec	4.5 - 5.1 % @Time 23.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0015 cm/cm	0.0015 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0088 cm/cm	0.0088 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	145 MPa	21000 psi	5 [mm/min]; ISO 527-1/2
Elongation at Break	4.5 %	4.5 %	5 [mm/min]; ISO 527-1/2
Tensile Modulus	10.3 GPa	1490 ksi	1[mm/min]; ISO 527-1/2
Charpy Impact Unnotched	11.0 J/cm ² @Temperature 23.0 °C	52.3 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	2.60 J/cm ² @Temperature 23.0 °C	12.4 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ISO 11357-1/3

Electrical Properties	Metric	English	Comments
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Volume Resistivity Electrical Properties	1.00e+10 ohm-cm Metric	1.00e+10 ohm-cm English	IEC 60093 Comments
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093

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