

Akro-Plastic Akromid® B3 GF 10 (2829) PA 6 Conditioned, 10% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 10% 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-10-2829-PA-6-Conditioned-10-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Filler Content	10 %	10 %	ISO 1172
Water Absorption	2.6 - 3.4 % @Temperature 70.0 °C	2.6 - 3.4 % @Temperature 158 °F	62% r.h., Humidity; ISO 62
Water Absorption at Saturation	8.5 - 9.0 % @Time 82800 sec	8.5 - 9.0 % @Time 23.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm	0.0040 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	5 [mm/min]; ISO 527-1/2
	27.5 MPa @Temperature 160 - 175 °C, Time 1.80e+7 sec	3990 psi @Temperature 320 - 347 °F, Time 5000 hour	5 [mm/min], 50% Loss of Tensile Strength; ICE 216
	27.5 MPa @Temperature 130 - 150 °C, Time 7.20e+7 sec	3990 psi @Temperature 266 - 302 °F, Time 20000 hour	5 [mm/min], 50% Loss of Tensile Strength; ICE 216
Elongation at Break	17 %	17 %	5 [mm/min]; ISO 527-1/2
Tensile Modulus	2.70 GPa	392 ksi	1[mm/min]; ISO 527-1/2
Charpy Impact Unnotched	11.5 J/cm ² @Temperature 23.0 °C	54.7 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eU
	0.800 J/cm ²	3.81 ft-lb/in ²	

Charpy Impact, Notched Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	ISO 179/1eA Comments
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Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ISO 11357-1/3

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

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