

Akro-Plastic Akromid® A3 GF 50 (2423) PA 6.6 Conditioned, 50% Glass Filled

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 50% Glass Fiber Filled

Material Notes:

AKROMID® A (Polyamide 6.6) 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® A 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-A3-GF-50-2423-PA-66-Conditioned-50-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.57 g/cc	0.0567 lb/in ³	ISO 1183
Filler Content	50 %	50 %	ISO 1172
Water Absorption	1.3 - 1.5 % @Temperature 70.0 °C	1.3 - 1.5 % @Temperature 158 °F	62% r.h., Humidity; ISO 62
Water Absorption at Saturation	3.7 - 4.3 % @Time 82800 sec	3.7 - 4.3 % @Time 23.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.0025 cm/cm	0.0025 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.012 cm/cm	0.012 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	180 MPa	26100 psi	5 [mm/min]; ISO 527-1/2
Elongation at Break	3.5 %	3.5 %	5 [mm/min]; ISO 527-1/2
Tensile Modulus	12.6 GPa	1830 ksi	1[mm/min]; ISO 527-1/2
Flexural Strength	310 MPa	45000 psi	2 [mm/min]; ISO 178
Flexural Modulus	13.6 GPa	1970 ksi	2 [mm/min]; ISO 178
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	2.30 J/cm ² @Temperature 23.0 °C	10.9 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	262 °C	504 °F	ISO 11357-1/3

Thermal Properties	Metric	English	Comments
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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