

Akro-Plastic Akromid® B3 (2500) PA 6 Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 6

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-B3-2500-PA-6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
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	9.0 - 10 % @Time 82800 sec	9.0 - 10 % @Time 23.0 hour	ISO 62
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	50 [mm/min], Test Speed 50 [mm/min]; ISO 527-1/2
Elongation at Break	>= 50 %	>= 50 %	50 [mm/min]; ISO 527-1/2
Tensile Modulus	1.20 GPa	174 ksi	1 [mm/min]; ISO 527-1/2
Charpy Impact Unnotched	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/1eU
Charpy Impact, Notched	1.60 J/cm ² @Temperature 23.0 °C	7.61 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
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	IEC 60093

Electrical Properties

Metric $\tau_{20} \pm 10$ ohm

English $\tau_{20} \pm 10$ ohm

Comments

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