Akro-Plastic Akromid® B3 GF 50 9 RM-M (3147) PA 6 Conditioned, 50% Glass Filled

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

Material Notes:

In all, the construction relevant features show that the significantly reduced moisture absorption of AKROMID B3 GF 30 RM leads to increasing rigidities and strengths as already expected. Nevertheless, the viscosity features are on the level of PA6. Especially after storage, e.g. at 150° AKROMID RM shows comparable ageing characteristics. For appliances with very constant features, low warpage, very good finish together with an improved chemical resistance and for production of parts according to the GIT/WIT process, the version B3 GF 30 RM 9 black (3099) or respectively B3 GF 50 9 RM black (3147) offers an ideal solution. However, if a very good impact strength is predominant, our type B3 GF 30 RM black (3016) or respectively B3 GF 50 RM black (3146) will be favored.High quality surface finish:B3 GF 30 9 RM black (3099)/B3 GF 50 9 RM black (3147)Very constant features with regard to climateVery low warpageVery good surfaceCaCl2 resistantCost-effective:B3 GF 30 RM black (3016)/B3 GF 50 RM black (3146)Closer to PA 6 GF 30/GF 50Constant features with regard to climateLow warpageTendentious higher impact strengthTendentious higher notched impactApplications:Electronic market:e.g. sensor housings, coil former (wo.UL), plug-in connectors, plug panels etc.Automobile market:e.g. sensor housing, electrical parts, wind screen wiper bows, door handles, mirror elements, sliding roof frames etc.General mechanical engineering:e.g. control elements in printer, copier, housings of valves, pumps etc.Information from Akro-Plastic

Order this product through the following link:
http://www.lookpolymers.com/polymer_Akro-Plastic-Akromid-B3-GF-50-9-RM-M-3147-PA-6-Conditioned-50-Glass-Filled.php

Physical Properties	Metric	English	Comments
Density	1.61 g/cc	0.0582 lb/in³	ISO 1183
Filler Content	50 %	50 %	ISO 1172
Water Absorption	1.2 % @Temperature 70.0 °C	1.2 % @Temperature 158 °F	62% RH, Humidity; ISO 1110
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	145 MPa	21000 psi	5 [mm/min]; ISO 527-2/5
Elongation at Break	3.0 %	3.0 %	5 [mm/min]; ISO 527-2/5
Tensile Modulus	13.0 GPa	1890 ksi	1 [mm/min]; ISO 527-2/1
Charpy Impact Unnotched	6.00 J/cm² @Temperature -30.0 °C	28.6 ft-lb/in² @Temperature -22.0 °F	ISO 179/1eU
	7.00 J/cm²	33.3 ft-lb/in²	ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	2.00 J/cm²	9.52 ft-lb/in²	ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.00 J/cm²	9.52 ft-lb/in²	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	225 °C	437 °F	ISO 11357-1

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