

AKROMID® B3 GF 40 RM-M black (3534)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 40 RM-M black (3534) is a 40% glass fibre reinforced polyamide 6 with reduced moisture absorption. Applications are humidity sensitive interior parts related to dimensional and mechanical stability in the automotive industry.

General Information				
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Features		Good Dimensional Stability		
		Humidity Resistant		
		Low Moisture Absorption		
Uses		Automotive Applications		
Appearance		Black		
Resin ID (ISO 1043)		PA6 + X GF40		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.50	--	g/cm ³	ISO 1183
Spiral Flow	60.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.50	--	%	
Humidity Absorption - 62% RH (70°C)	1.4	--	%	ISO 1110
Reinforcement Content	40	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13000	10000	MPa	ISO 527-2/1
Tensile Stress (Break)	195	135	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	3.5	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	16	--	kJ/m ²	
23°C	16	17	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	70	--	kJ/m ²	
23°C	75	75	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	210	--	°C	ISO 75-2/A

8.0 MPa, Unannealed	160	--	°C	ISO 75-2/C
Melting Temperature ¹	225	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94

NOTE

1. 10 K/min, DSC
2. >1 mm

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