AKROMID® B3 GF 50 RM-M black (3146)

Polyamide 6

AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 50 RM-M black (3146) is a 50% glass fibre reinforced polyamide 6 with very high stiffness and strength and limited moisture absorption
Applications are housings and other dimensional stable parts in the automotive and electronic industry

General Information				
Filler / Reinforcement	Glass Fiber,50% Filler by Weight			
Features	Good Dimensional Stability High Stiffness High Strength Low Moisture Absorption			
Uses	Automotive Applications Electrical/Electronic Applications Housings			
Appearance	Black			
Resin ID (ISO 1043)	PA6 + X GF50			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.62	--	g/cm³	ISO 1183
Spiral Flow	50.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.40	--	%	
Humidity Absorption - 62% RH (70°C)	1.2	--	%	ISO 1110
Reinforcement Content	50	--	%	ISO 1172
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 961/30)	280	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	17000	12000	MPa	ISO 527-2/1
Tensile Stress (Break)	210	135	MPa	ISO 527-2/5
Tensile Strain (Break)	2.2	3.0	%	ISO 527-2/5
Flexural Modulus [1]	17500	--	MPa	ISO 178
Flexural Stress [2]	320	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA

-30°C	15	20	kJ/m²	
23°C	20	20	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	60	kJ/m²	
23°C	70	70	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	215	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	165	--	°C	ISO 75-2/C
Melting Temperature [3]	225	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate [4] (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94

NOTE	
1.	2.0 mm/min
2.	2.0 mm/min
3.	10 K/min, DSC
4.	>1 mm

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

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