

AKROMID® B3 GF 15 S1 natural (3693)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID B3 GF 15 S1 natural (3693) is a 15% glass fibre reinforced, cold impact strength polyamide 6 with medium stiffness and strength and light inherent color
Applications are highly integrated housings in the automotive, electro and furniture industry

General Information				
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Features		Good Stiffness		
		Low Temperature Impact Resistance		
		Medium Strength		
Uses		Automotive Applications		
		Electrical/Electronic Applications		
		Furniture		
		Housings		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA6-I GF15		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.22	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	45.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.40	--	%	
Humidity Absorption - 62% RH (70°C)	2.3	--	%	ISO 1110
Reinforcement Content	15	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6000	3100	MPa	ISO 527-2/1
Tensile Stress (Break)	120	65.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	10	%	ISO 527-2/5
Flexural Modulus ¹	6000	3100	MPa	ISO 178
Flexural Stress ²	190	110	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	--	kJ/m ²	
23°C	7.0	16	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	--	kJ/m ²	
23°C	70	95	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	200	--	°C	ISO 75-2/A
Melting Temperature ³	222	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	575	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁴ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10 K/min, DSC			
4.	> 1 mm			

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