

AKROMID® B3 K8 9 FR grey (3840)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 K8 9 FR grey (3840) is a 20% glass fibre reinforced, halogene free flameretardant polyamide 6 with flammability acc UL 94 V2. Applications are housings for Electro/Electronic industry.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
Uses	Electrical Housing		
	Electrical/Electronic Applications		
Appearance	Grey		
Resin ID (ISO 1043)	PA6 GF20 FR		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.30	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	100	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.60	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6000	MPa	ISO 527-2/1
Tensile Stress (Break)	95.0	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	%	ISO 527-2/5
Flexural Modulus ¹	5800	MPa	ISO 178
Flexural Stress ²	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.0	kJ/m²	
23°C	4.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	40	kJ/m²	
23°C	55	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B

1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Melting Temperature ³	222	°C	DIN EN 11357-1
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁴ (1.00 mm)	< 100	mm/min	FMVSS 302
Flame Rating (0.800 mm)	V-2		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Additional Information	Nominal Value	Unit	Test Method
Reinforcement Content	20	%	ISO 1172
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	10 K/min, DSC		
4.	>1 mm		

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