

AKROLEN® PP GFM 25/15 black 950088 (1415)

Polypropylene
AKRO-PLASTIC GmbH

Message:

AKROLEN® PP GFM 25/15 black 950088 (1415) is a 25% glass fibre reinforced, 15% mineral-filled polypropylene with good surface and dimensional stability
Applications are mainly thin wall housings for electronic parts in the automotive industry with operation temperatures up to 100°C

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight		
	Mineral filler, 15% filler by weight		
Features	Good dimensional stability		
	Excellent appearance		
Uses	Thin wall parts		
	Electrical/Electronic Applications		
	Application in Automobile Field		
	Shell		
Appearance	Black		
Resin ID (ISO 1043)	PP GF25+M15		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.21	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	13.5	cm³/10min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	100	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6500	MPa	ISO 527-2/1
Tensile Stress (Break)	75.0	MPa	ISO 527-2/50
Tensile Strain (Break)	3.5	%	ISO 527-2/50
Flexural Modulus ¹	6600	MPa	ISO 178
Flexural Stress ²	105	MPa	ISO 178
Flexural Strain at Break ³	3.6	%	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m²	ISO 179/1eU
23°C	42	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	10	kJ/m²	ISO 180/1A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	163	°C	ISO 75-2/B
1.8 MPa, not annealed	150	°C	ISO 75-2/A
Melting Temperature ⁴	167	°C	DIN EN 11357-1
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 80°C	2.0E-5	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	1.3E-4	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 2.0E+11	ohms·cm	IEC 60093
Dielectric Strength (3.00 mm)	18	kV/mm	IEC 60243-1
Comparative Tracking Index (Solution A)	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	mm/min	FMVSS 302
Flame Rating (1.6 mm)	HB		UL 94
Glow Wire Flammability Index (2.0 mm)	750	°C	IEC 60695-2-12
NOTE			
1.	2.0 mm/min		
2.	2.0 mm/min		
3.	2 mm/min		
4.	10°C/min		
5.	>1 mm		

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