

AKROLEN® PP GFM 25/15 natural (2118)

Polypropylene

AKRO-PLASTIC GmbH

Message:

AKROLEN® PP GFM 25/15 natural (2118) is a 25% glass fibre reinforced, 15% mineral filled polypropylene with good surface, dimensional stability and light inherent color

Applications are mainly thin wall housings for electronic parts in the automotive industry

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	Natural color		
Resin ID (ISO 1043)	PP GF25 + M15		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.21	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	13.5	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	0.50	%	ISO 294-4
Flow	0.20	%	ISO 294-4
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
Reinforcement Content	40	%	ISO 1172
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	11	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	45	kJ/m ²	ISO 179/1eU
23°C	42	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	10	kJ/m ²	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
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
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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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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