

AKROMID® A3 GM 15/15 natural (1022)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GM 15/15 natural (1022) is a 15% glass fibre reinforced, 15% glass bead filled polyamide 6.6 showing good surfaces, low warpage and light inherent color
Applications are mainly components in mechanical engineering and automotive industry with high surface requirements

General Information				
Filler / Reinforcement		Glass Bead,15% Filler by Weight Glass Fiber,15% Filler by Weight		
Features		Good Surface Finish Low Warpage		
Uses		Automotive Applications Engineered Applications		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA66 GF15 + GB15		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.35	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	0.40	--	%	
Water Absorption				
(Saturation, 23°C)	5.6	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)				
	1.4	--	%	ISO 1110
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7600	4600	MPa	ISO 527-2/1
Tensile Stress (Break)	145	90.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	8.0	%	ISO 527-2/5
Flexural Modulus ¹	7500	6200	MPa	ISO 178
Flexural Stress ²	220	155	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	41	75	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	262	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	244	--	°C	ISO 75-2/A
Melting Temperature ³	262	--	°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)	500	--	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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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

