

AKROMID® A3 GF 40 natural (1258)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 40 natural (1258) is a 40% glass fibre reinforced polyamide 6.6 with high rigidity and strength and light inherent color
Applications are mainly components in mechanical engineering and in the automotive industry

General Information				
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Features		High Rigidity		
		High Strength		
Uses		Engineered Applications		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA66 GF40		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.46	--	g/cm ³	ISO 1183
Spiral Flow	72.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.20	--	%	
Water Absorption (Saturation, 23°C)	4.3 to 4.7	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	1.7 to 1.9	--	%	ISO 1110
Temperature Index				IEC 216
50% Loss of Tensile Strength, 20000 hr	130 to 150	--	°C	
50% Loss of Tensile Strength, 5000 hr	160 to 175	--	°C	
Reinforcement Content	40	--	%	ISO 1172
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	270	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13100	9800	MPa	ISO 527-2/1
Tensile Stress (Break)	225	160	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	4.0	%	ISO 527-2/5
Flexural Modulus ¹	12000	--	MPa	ISO 178
Flexural Stress ²	360	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method

Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	--	kJ/m ²	
23°C	17	20	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	95	--	kJ/m ²	
23°C	100	110	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	260	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	225	--	°C	ISO 75-2/C
Melting Temperature ³	262	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	600	--	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
Glow Wire Flammability Index (1.60 mm)	650	--	°C	IEC 60695-2-12
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



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