

AKROMID® A3 GF 15 natural (2418)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 15 natural (2418) is a 15% glass fibre reinforced polyamide 6.6 with medium stiffness and strength and light inherent color
Applications are mainly components in mechanical engineering

General Information				
Filler / Reinforcement		Glass Fiber,15% Filler by Weight		
Features		Good Stiffness		
		Medium Strength		
Uses		Engineering Parts		
		Machine/Mechanical Parts		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA66 GF15		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.24	--	g/cm ³	ISO 1183
Spiral Flow	99.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.4	--	%	
Flow	0.40	--	%	
Water Absorption (Saturation, 23°C)	6.7 to 7.3	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	2.5 to 2.7	--	%	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	15	--	%	ISO 1172
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	200	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6400	3700	MPa	ISO 527-2/1
Tensile Stress (Break)	140	80.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	12	%	ISO 527-2/5
Flexural Modulus ¹	6100	--	MPa	ISO 178
Flexural Stress ²	200	--	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	--	kJ/m ²	
23°C	7.0	10	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	43	--	kJ/m ²	
23°C	45	90	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	245	--	°C	ISO 75-2/A
Melting Temperature ³	262	--	°C	DIN EN 11357-1
CLTE				ISO 11359-2
Flow : 23 to 80°C	3.4E-5	--	cm/cm/°C	
Transverse : 23 to 80°C	1.1E-4	--	cm/cm/°C	
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			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT