AKROMID® A3 GF 60 black (2432)

Polyamide 66

AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 60 black (2432) is a 60% glass fibre reinforced polyamide 6.6 with very high rigidity and strength
Applications are mainly components in mechanical engineering and in the automotive industry

General Information				
Filler / Reinforcement	Glass Fiber,60% Filler by Weight			
Features	High Rigidity High Strength			
Uses	Engineered Applications			
Appearance	Black			
Resin ID (ISO 1043)	PA66 GF60			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.71	--	g/cm³	ISO 1183
Spiral Flow	53.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.40	--	%	
Water Absorption (Saturation, 23°C)	3.2 to 3.7	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	1.0 to 1.2	--	%	ISO 1110
Reinforcement Content	60	--	%	ISO 1172
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 961/30)	330	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	20500	15800	MPa	ISO 527-2/1
Tensile Stress (Break)	260	190	MPa	ISO 527-2/5
Tensile Strain (Break)	2.0	2.5	%	ISO 527-2/5
Flexural Modulus [1]	19800	--	MPa	ISO 178
Flexural Stress [2]	400	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	19	--	kJ/m²	
23°C	19	22	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	97	--	kJ/m²	
23°C	85	95	kJ/m²	
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	235	--	°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			

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