

AKROMID® A3 GF 33 1 black (2935)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 33 1 black (2935) is an 33% glass fibre reinforced , heat stabilised polyamide 6.6 with high stiffness and strength. Applications are mainly components in mechanical engineering and automotive industry.

General Information				
UL YellowCard		E148915-101075625		
Filler / Reinforcement		Glass Fiber,33% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
		High Stiffness		
		High Strength		
Uses		Automotive Applications		
		Engineering Parts		
		Machine/Mechanical Parts		
Appearance		Black		
Resin ID (ISO 1043)		PA 66 GF 33		
Physical	Dry	Conditioned	Unit	Test Method
Water Absorption (Saturation, 23°C)	4.7 to 5.3	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	1.8 to 2.0	--	%	ISO 1110
Reinforcement Content	33	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	11500	8200	MPa	ISO 527-2/1
Tensile Stress (Break)	210	140	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	5.0	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	16	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	80	--	kJ/m²	
23°C	80	100	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	255	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	220	--	°C	ISO 75-2/C
Melting Temperature ¹	262	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	--	ohms	IEC 60093
Volume Resistivity	1.0E+13	--	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	10 K/min, DSC			
2.	> 1 mm			

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