

AKROMID® A3 GF 30 4 6 black 950058 (1369)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 30 4 6 black 950058 (1369) is a 30% glass fibre reinforced, high heat stabilised, hydrolysis- and chemical resistant polyamide 6.6 with high stiffness and strength
Applications are functional parts in the heating- and cooling system in the automotive industry

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Chemical Resistance		
		Heat Stabilized		
		High Stiffness		
		High Strength		
		Hydrolysis Resistant		
Uses		Automotive Applications		
Appearance		Black		
Resin ID (ISO 1043)		PA66 GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.36	--	g/cm ³	ISO 1183
Spiral Flow	76.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.1	--	%	
Flow	0.30	--	%	
Water Absorption (Saturation, 23°C)	4.5	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	1.9	--	%	ISO 1110
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	6700	MPa	ISO 527-2/1
Tensile Stress (Break)	200	130	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	7.0	%	ISO 527-2/5
Flexural Modulus ¹	9500	--	MPa	ISO 178
Flexural Stress ²	300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	10	--	kJ/m ²	
23°C	12	17	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-40°C	73	--	kJ/m ²	
23°C	86	95	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	265	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	253	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	210	--	°C	ISO 75-2/C
Melting Temperature ³	262	--	°C	DIN EN 11357-1
CLTE				ISO 11359-2
Flow : 23 to 80°C	1.9E-5	--	cm/cm/°C	
Transverse : 23 to 80°C	9.5E-5	--	cm/cm/°C	
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)	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
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10 K/min, DSC			
4.	> 1 mm			

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