

AKROMID® A3 GF 30 S1 black 950058 (1365)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 30 S1 black 950058 (1365) is a 30% glass fibre reinforced, cold impact strength polyamide 6.6 with high stiffness and strength
Applications are technical parts with high accuracy for engine building and automotive industry

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		High Stiffness		
		High Strength		
		Low Temperature Impact Resistance		
Uses		Automotive Applications		
		Automotive Under the Hood		
Appearance		Black		
Resin ID (ISO 1043)		PA66-I GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.34	--	g/cm ³	ISO 1183
Spiral Flow	69.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.30	--	%	
Humidity Absorption - 62% RH (70°C)	1.7	--	%	ISO 1110
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9600	8000	MPa	ISO 527-2/1
Tensile Stress (Break)	180	120	MPa	ISO 527-2/5
Tensile Strain (Break)	5.0	6.0	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	12	kJ/m ²	
23°C	17	20	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	100	kJ/m ²	
23°C	110	110	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	255	--	°C	ISO 75-2/A
Melting Temperature ¹	262	--	°C	DIN EN 11357-1
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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