

AKROMID® A3 GF 30 4 L black (4678)

Polyamide 66 + PP

AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 30 4 L black (4678) is a 30% glass fibre reinforced and hydrolysis-/ chemical stabilised polyamide-blend with a reduced density compared to standard PA6.6 GF 30

Applications are mainly functional parts in the heating- and cooling system in the automotive industry, where a weight and cost reduction is required

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Hydrolysis Resistant		
Features		Low Density		
Uses		Automotive Applications		
Appearance		Black		
Resin ID (ISO 1043)		PA66 + PP GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.26	--	g/cm ³	ISO 1183
Humidity Absorption - 62% RH (70°C)	1.2	--	%	ISO 1110
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8600	7000	MPa	ISO 527-2/1
Tensile Stress (Break)	150	110	MPa	ISO 527-2/5
Tensile Strain (Break)	2.8	4.0	%	ISO 527-2/5
Flexural Modulus ¹	8600	--	MPa	ISO 178
Flexural Stress ²	220	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	16	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	70	66	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	246	--	°C	ISO 75-2/A
Melting Temperature ³	262	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁴ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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|----|---------------|
| 3. | 10 K/min, DSC |
| 4. | >1 mm |

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