

AKROMID® S3 GF 30 4 black (3429)

Polyamide 610
AKRO-PLASTIC GmbH

Message:

AKROMID® S3 GF 30 4 black (3429) is a 30% glass fibre reinforced and hydrolysis stabilised polyamide 6.10 with high stiffness and strength as well as lower moisture absorption and very high chemical resistance.
Applications are technical components of cooling water cycles in the automotive industry.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Hydrolysis Resistant		
Features		Good Chemical Resistance		
		High Stiffness		
		High Strength		
		Low Moisture Absorption		
Uses		Automotive Applications		
Appearance		Black		
Resin ID (ISO 1043)		PA610 GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.31	--	g/cm ³	ISO 1183
Spiral Flow	40.0	--	cm	Internal Method
Humidity Absorption - 62% RH (70°C)	1.2	--	%	ISO 1110
Flexural Strain at Break ¹	5.5	--	%	ISO 178
Reinforcement Content	30	--	%	ISO 1172
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	195	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8600	6200	MPa	ISO 527-2/1
Tensile Stress (Break)	160	110	MPa	ISO 527-2/5
Tensile Strain (Break)	5.5	6.5	%	ISO 527-2/5
Flexural Modulus ²	7700	--	MPa	ISO 178
Flexural Stress ³	230	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	--	kJ/m ²	
23°C	16	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	110	--	kJ/m ²	
23°C	110	90	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	200	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	140	--	°C	ISO 75-2/C
Melting Temperature ⁴	220	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
NOTE				
1.	2 mm/min			
2.	2.0 mm/min			
3.	2.0 mm/min			
4.	10 K/min, DSC			
5.	> 1 mm			

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