

AKROMID® B28 GF 30 S3 natural (4835)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B28 GF 30 S3 natural (4835) is a 30% glass fibre reinforced, dry impact resistant, easy flowing polyamide 6 with high stiffness and strength and light inherent color
Applications are housings and covers for the automotive industry and power tools

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Good Flow		
		Good Impact Resistance		
		High Stiffness		
		High Strength		
Uses		Automotive Applications		
		Housings		
		Power/Other Tools		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA6-I GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.30	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	35.0	--	cm ³ /10min	ISO 1133
Humidity Absorption - 62% RH (70°C)	2.1	--	%	ISO 1110
Flexural Strain at Break ¹	5.5	--	%	ISO 178
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	4900	MPa	ISO 527-2/1
Tensile Stress (Break)	160	105	MPa	ISO 527-2/5
Tensile Strain (Break)	4.5	10	%	ISO 527-2/5
Flexural Modulus ²	7500	--	MPa	ISO 178
Flexural Stress ³	245	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	--	kJ/m ²	
23°C	20	30	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	110	--	kJ/m ²	
23°C	100	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	207	--	°C	ISO 75-2/A
Melting Temperature ⁴	220	--	°C	DIN EN 11357-1
NOTE				
1.	2 mm/min			
2.	2.0 mm/min			
3.	2.0 mm/min			
4.	10 K/min, DSC			

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