

AKROMID® B3 GF 30 1 blue (5350)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 30 1 blue (5350) is a 30% glass fibre reinforced, heat stabilised polyamide 6 with high rigidity and strength
Applications are mainly components in mechanical engineering and in the automotive industry

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 30% filler by weight		
Additive		heat stabilizer		
Features		Rigidity, high		
		High strength		
		Thermal Stability		
Uses		Engineering application		
Appearance		Blue		
Resin ID (ISO 1043)		PA6 GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.36	--	g/cm ³	ISO 1183
Spiral Flow	66.0	--	cm	Internal method
Molding Shrinkage				ISO 294-4
Transverse flow	0.70	--	%	ISO 294-4
Flow	0.30	--	%	ISO 294-4
Water Absorption (Saturation, 23°C)	6.3 - 6.9	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	2.1 - 2.3	--	%	ISO 1110
Reinforcement Content	30	--	%	ISO 1172
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	230	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	6000	MPa	ISO 527-2/1
Tensile Stress (Break)	170	110	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	5.5	%	ISO 527-2/5
Flexural Modulus ¹	8500	--	MPa	ISO 178
Flexural Stress ²	270	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	80	100	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, not annealed	220	--	°C	ISO 75-2/B
1.8 MPa, not annealed	210	--	°C	ISO 75-2/A
8.0 MPa, not annealed	150	--	°C	ISO 75-2/C
Melting Temperature ³	220	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	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 (0.8 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.6 mm)	650	--	°C	IEC 60695-2-12
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10°C/min			
4.	> 1 mm			

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