

AKROMID® B3 GF 10 1 black (3658)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 10 1 black (3658) is a 10% glass fibre reinforced, heat stabilised polyamide 6 with medium stiffness and strength, UL listed. Applications are mainly components in mechanical engineering and in the automotive industry

General Information				
UL YellowCard		E148915-101075626		
Filler / Reinforcement		Glass Fiber,10% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Stiffness		
		Heat Stabilized		
		Medium Strength		
Uses		Engineered Applications		
Appearance		Black		
Resin ID (ISO 1043)		PA6 GF10		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.20	--	g/cm ³	ISO 1183
Spiral Flow	95.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.40	--	%	
Water Absorption (Saturation, 23°C)	8.5 to 9.0	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	2.6 to 3.4	--	%	ISO 1110
Reinforcement Content	10	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4800	2700	MPa	ISO 527-2/1
Tensile Stress (Break)	105	55.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	17	%	ISO 527-2/5
Flexural Modulus ¹	3500	--	MPa	ISO 178
Flexural Stress ²	150	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	--	kJ/m ²	
23°C	5.0	8.0	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	41	--	kJ/m ²	
23°C	47	120	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	200	--	°C	ISO 75-2/A
Melting Temperature ³	220	--	°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			
3.	10 K/min, DSC			
4.	> 1 mm			

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