

AKROMID® C3 GF 40 1 black (4658)

Polyamide 66/6 Copolymer

AKRO-PLASTIC GmbH

Message:

AKROMID® C3 GF 40 1 black (4658) is a 40% glass fibre reinforced, heat stabilised polyamide 6.6/6 - Blend.
Applications are mainly components in mechanical engineering and the automotive industry where good flowability is required.

General Information				
Filler / Reinforcement		Glass Fiber,40% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Flow		
		Heat Stabilized		
Uses		Automotive Applications		
		Engineered Applications		
Appearance		Black		
Resin ID (ISO 1043)		PA66 + PA6 GF40		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.47	--	g/cm ³	ISO 1183
Spiral Flow	82.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.30	--	%	
Humidity Absorption - 62% RH (70°C)	1.7	--	%	ISO 1110
Temperature Index				IEC 216
50% Loss of Tensile Strength, 20000 hr	130 to 150	--	°C	
50% Loss of Tensile Strength, 5000 hr	160 to 175	--	°C	
Reinforcement Content	40	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12800	9100	MPa	ISO 527-2/1
Tensile Stress (Break)	220	145	MPa	ISO 527-2/5
Tensile Strain (Break)	2.6	5.0	%	ISO 527-2/5
Flexural Modulus ¹	12200	--	MPa	ISO 178
Flexural Stress ²	330	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	20	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	90	120	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	261	--	°C	ISO 75-2/B
8.0 MPa, Unannealed	215	--	°C	ISO 75-2/C
Melting Temperature ³	260	--	°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 (1.60 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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