

AKROMID® C3 1 black (4546)

Polyamide 66/6 Copolymer

AKRO-PLASTIC GmbH

Message:

AKROMID® C3 1 black (4546) is a nonreinforced, heat stabilised polyamide 6.6/6-Blend.
Applications are housings and fixtures in the automotive and electric industry.

General Information				
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Uses		Automotive Applications		
		Electrical/Electronic Applications		
		Housings		
Appearance		Black		
Resin ID (ISO 1043)		PA66 + PA6		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.14	--	g/cm ³	ISO 1183
Spiral Flow	160	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.9	--	%	
Flow	1.2	--	%	
Humidity Absorption - 62% RH (70°C)	2.6	--	%	ISO 1110
Temperature Index				IEC 216
50% Loss of Tensile Strength, 20000 hr	90 to 120	--	°C	
50% Loss of Tensile Strength, 5000 hr	100 to 140	--	°C	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3100	1100	MPa	ISO 527-2/1
Tensile Stress (Yield)	80.0	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	5.0	> 50	%	ISO 527-2/50
Flexural Modulus ¹	3000	--	MPa	ISO 178
Flexural Stress ²	115	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.0	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	185	--	°C	ISO 75-2/A
Melting Temperature ³	260	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	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)	V-2	--		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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