

AKROMID® C3 1 S3 black (4297)

Polyamide 66/6 Copolymer

AKRO-PLASTIC GmbH

Message:

AKROMID® C3 1 S3 black (4297) is an unreinforced, heat stabilised, dry impact resistant polyamide 6.6/6-Blend.
Applications are connecting and fixing systems in the automotive and electro industry where good flowability is required.

General Information				
Additive	Heat Stabilizer			
Features	Good Flow			
	Good Impact Resistance			
	Heat Stabilized			
Uses	Automotive Applications			
	Connectors			
	Electrical/Electronic Applications			
Appearance	Black			
Resin ID (ISO 1043)	PA66 +PA6			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.12	--	g/cm ³	ISO 1183
Spiral Flow	120	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	2.2	--	%	
Flow	1.4	--	%	
Humidity Absorption - 62% RH (70°C)	2.6	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2500	1100	MPa	ISO 527-2/1
Tensile Stress (Yield)	65.0	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	25	> 100	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.0	--	kJ/m ²	
23°C	7.0	20	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/A
Melting Temperature ¹	260	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	10 K/min, DSC			
2.	> 1 mm			

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