

AKROMID® B3 1 L black (4525)

Polyamide 6 + PP
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 1 L black (4525) is a nonreinforced and heat stabilised polyamide-blend with a reduced density compared to standard PA6
Applications are mainly technical components in the automotive and electronic industry, where a weight and cost reduction is required

General Information				
Additive	Heat Stabilizer			
Features	Heat Stabilized			
	Low Density			
Uses	Automotive Applications			
	Electrical/Electronic Applications			
Appearance	Black			
Resin ID (ISO 1043)	PA6 + PP			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.04	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	50.0	--	cm ³ /10min	ISO 1133
Spiral Flow	86.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.9	--	%	
Flow	1.3	--	%	
Humidity Absorption - 62% RH (70°C)	1.9	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2300	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	55.0	40.0	MPa	ISO 527-2/50
Tensile Strain (Break)	45	> 50	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	5.0	4.0	kJ/m ²	
23°C	6.0	18	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	No Break		
23°C	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	140	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/A
Melting Temperature ¹	220	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ² (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
Glow Wire Flammability Index (0.800 mm)	750	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	775	--	°C	IEC 60695-2-13

NOTE				
1.	10 K/min, DSC			
2.	>1 mm			

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