

AKROMID® A3 1 S3 black (2768)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 1 S3 black (2768) is an unreinforced, heat stabilised, dry impact resistant polyamide 6.6.
Applications are connecting and fixing systems, used are elevated temperatures in the automotive and elctro industry

General Information				
Additive		Heat Stabilizer		
		Impact Modifier		
Features		Heat Stabilized		
		Impact Modified		
Uses		Automotive Applications		
		Connectors		
		Electrical/Electronic Applications		
		Fasteners		
Appearance		Black		
Resin ID (ISO 1043)		PA66-I		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.11	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	52.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	2.1	--	%	
Flow	2.0	--	%	
Humidity Absorption - 62% RH (70°C)	2.5	--	%	ISO 1110
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	125	65.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2600	1000	MPa	ISO 527-2/1
Tensile Stress (Yield)	68.0	42.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.4	--	%	
Break	> 25	> 50	%	
Flexural Modulus ¹	2100	1000	MPa	ISO 178
Flexural Stress ²				ISO 178

-- ³	65.0	--	MPa	
--	81.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	--	kJ/m ²	
23°C	11	28	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength				ISO 180/1A
-30°C	9.0	--	kJ/m ²	
23°C	11	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	194	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	60.0	--	°C	ISO 75-2/A
Melting Temperature ⁴	260	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁵ (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.	Standard Flexural Stress			
4.	10 K/min, DSC			
5.	> 1 mm			

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