

AKROMID® A3 black (3706)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 black (3706) is an unreinforced, heat stabilised polyamide 6.6.
Applications are components with thin walls and long flow paths

General Information				
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Uses		Thin-walled Parts		
Appearance		Black		
Resin ID (ISO 1043)		PA66		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.14	--	g/cm ³	ISO 1183
Spiral Flow	104	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.6	--	%	
Flow	1.4	--	%	
Humidity Absorption - 62% RH (70°C)	2.9	--	%	ISO 1110
Flexural Strain at Break ¹	7.0	9.0	%	ISO 178
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	144	87.0	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1400	MPa	ISO 527-2/1
Tensile Stress (Yield)	80.0	55.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	> 5.0	--	%	
Break	> 15	> 50	%	
Flexural Modulus ²	2800	1400	MPa	ISO 178
Flexural Stress ³	110	50.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	6.5	--	kJ/m ²	
23°C	7.0	--	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179/1eU
Notched Izod Impact Strength				ISO 180/1A

-40°C	7.0	--	kJ/m ²	
-30°C	7.0	--	kJ/m ²	
23°C	8.0	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	209	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	47.0	--	°C	ISO 75-2/C
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 mm/min			
2.	2.0 mm/min			
3.	2.0 mm/min			
4.	10 K/min, DSC			
5.	> 1 mm			

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