

AKROMID® A4 1 natural (3716)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A4 1 natural (3716) is a nonreinforced, heat stabilised, higher viscous polyamide 6.6 with light inherent color
Applications are highly stressed parts such as gear-wheels, bearing cages, cable connectors and coil formers.

General Information				
Additive		Heat Stabilizer		
Features		Heat Stabilized		
		High Strength		
		High Viscosity		
Uses		Bearings		
		Connectors		
		Gears		
		Wheels		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA66		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.14	--	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	20.0	--	cm ³ /10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	1.8	--	%	
Flow	1.5	--	%	
Humidity Absorption - 62% RH (70°C)	2.4 to 2.8	--	%	ISO 1110
Flexural Strain at Break ¹	7.0	--	%	ISO 178
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	1400	MPa	ISO 527-2/1
Tensile Stress (Yield)	90.0	55.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.5	20	%	
Break	> 30	> 50	%	
Flexural Modulus ²	3000	--	MPa	ISO 178
Flexural Stress ³	125	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA

-30°C	3.5	--	kJ/m ²	
23°C	7.0	15	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				
1.8 MPa, Unannealed	72.0	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	52.0	--	°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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