

AKROMID® A4 5 EN natural (3162)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A4 5 EN natural (3162) is a nonreinforced, high temperature stabilised, electrical neutral, higher viscous polyamide 6.6
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)	44.0	--	cm ³ /10min	ISO 1133
Humidity Absorption - 62% RH (70°C)	2.4 to 2.8	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3500	1400	MPa	ISO 527-2/1
Tensile Stress (Yield)	95.0	55.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.5	20	%	
Break	> 15	> 50	%	
Flexural Modulus ¹	2900	1500	MPa	ISO 178
Flexural Stress ²	50.0	15.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	15	kJ/m ²	ISO 179/1eA
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

Melting Temperature ³	260	--	°C	DIN EN 11357-1
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10 K/min, DSC			

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