

AKROMID® A3 S3 natural (1176)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 S3 natural (1176) is a nonreinforced, dry impact resistant polyamide 6.6 with light inherent color
Applications are connecting and fixing systems in the automotive and elctro industry

General Information				
Features		Good Impact Resistance		
Uses		Automotive Applications		
		Connectors		
		Electrical/Electronic Applications		
		Fasteners		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA66-I		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.10	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	2.1	--	%	
Flow	1.8	--	%	
Humidity Absorption - 62% RH (70°C)	2.1	--	%	ISO 1110
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	93.0	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2800	1700	MPa	ISO 527-2/1
Tensile Stress (Yield)	67.0	48.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	6.0	26	%	
Break	> 30	> 50	%	
Flexural Modulus ¹	2850	1600	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	--	kJ/m ²	
23°C	15	25	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	213	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	67.0	--	°C	ISO 75-2/A
Melting Temperature ²	263	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+14	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ³ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	2.0 mm/min			
2.	10 K/min, DSC			
3.	>1 mm			

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