

AKROMID® A3 1 S3 15 natural (2892)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 1 S3 15 natural (2892) is a unreinforced, heat stabilised and dry impact modified polyamide 6.6 with light inherent color
Applications are connecting and fixing systems, used at elevated temperatures in the automotive and electro industry

General Information				
Additive		Heat Stabilizer		
		Impact Modifier		
Features		Heat Stabilized		
		Impact Modified		
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
Spiral Flow	81.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	2.2	--	%	
Flow	2.1	--	%	
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	2700	1300	MPa	ISO 527-2/1
Tensile Stress (Yield)	63.0	45.0	MPa	ISO 527-2/50
Tensile Strain (Break)	> 35	> 100	%	ISO 527-2/50
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	10	--	kJ/m ²	
23°C	15	25	kJ/m ²	

Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Notched Izod Impact Strength				ISO 180/1A
-40°C	12	--	kJ/m ²	
-20°C	12	--	kJ/m ²	
23°C	15	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	213	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/A
Melting Temperature ¹	262	--	°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 ² (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
NOTE				
1.	10 K/min, DSC			
2.	>1 mm			

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