

AKROMID® A3 S1 natural (2310)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 S1 natural (2310) is an unreinforced, cold impact modified polyamide 6.6 with light inherent color
Applications are connectors and fixtures for the automotive electro and furniture industry, if high impact resistance at low temperatures is required.

General Information				
Additive		Impact Modifier		
Features		Impact Modified		
		Low Temperature Impact Resistance		
Uses		Automotive Applications		
		Automotive Electronics		
		Connectors		
		Furniture		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA66-I		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.07	--	g/cm ³	ISO 1183
Spiral Flow	77.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	2.3	--	%	
Flow	2.4	--	%	
Humidity Absorption - 62% RH (70°C)	1.7	--	%	ISO 1110
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	80.0	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2000	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	50.0	38.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.8	> 50	%	
Break	> 50	> 100	%	
Flexural Modulus ¹	1950	1000	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	35	--	kJ/m ²	

-30°C	45	--	kJ/m ²	
23°C	> 80	> 100	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°C	No Break	No Break		
-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	152	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	62.0	--	°C	ISO 75-2/A
Melting Temperature ²	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 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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