

AKROMID® A3 natural (2414)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 natural (2414) is an unreinforced polyamide 6.6 with a good flowability and light inherent color
Applications are housings and fixtures in the automotive and electric industry

General Information				
Features	Good Flow			
Uses	Automotive Applications			
	Electrical/Electronic Applications			
	Housings			
Appearance	Natural Color			
Resin ID (ISO 1043)	PA66			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.14	--	g/cm ³	ISO 1183
Spiral Flow	104	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	2.3	--	%	
Flow	1.9	--	%	
Water Absorption (Saturation, 23°C)	8.0 to 9.0	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	2.9 to 3.1	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3200	1100	MPa	ISO 527-2/1
Tensile Stress (Yield)	85.0	50.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.5	20	%	
Break	> 20	> 50	%	
Flexural Modulus ¹	2800	--	MPa	ISO 178
Flexural Stress ²	110	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	2.0	--	kJ/m ²	
23°C	5.0	13	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		
23°C	No Break	No Break		

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	75.0	--	°C	ISO 75-2/A
Melting Temperature ³	262	--	°C	DIN EN 11357-1
CLTE				ISO 11359-2
Flow : 23 to 80°C	7.1E-5	--	cm/cm/°C	
Transverse : 23 to 80°C	1.1E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁴ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	V-2	--		UL 94
Glow Wire Flammability Index (1.60 mm)	750	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.60 mm)	675	--	°C	IEC 60695-2-13
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			
3.	10 K/min, DSC			
4.	> 1 mm			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

