

AKROMID® B3 F0 natural (1812)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 F0 natural (1812) is an nonreinforced polyamide 6 with halogen- and phosphorusfree flame retardant, listed acc. UL 94 at 0,8 mm in all colours, meeting the demand high GWIT of the appliances industry. This material is listet at VDE.
Application areas are housings, fasteners and cable connectors in the electro- and electronic industry

General Information				
UL YellowCard		E148915-223688		
Additive		Flame Retardant		
Features		Flame Retardant		
		Halogen Free		
		Low (to None) Phosphorus Content		
Uses		Appliances		
		Connectors		
		Electrical/Electronic Applications		
		Fasteners		
		Housings		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA6 FR		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.17	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.80	--	%	
Humidity Absorption - 62% RH (70°C)	2.7	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4000	1300	MPa	ISO 527-2/1
Tensile Stress (Yield)	77.0	42.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	3.5	22	%	
Break	12	> 100	%	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	> 100	--	kJ/m ²	

23°C	> 100 kJ/m ²	No Break		
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	--	°C	ISO 75-2/A
Melting Temperature ¹	222	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Volume Resistivity	1.0E+13	--	ohms·cm	IEC 60093
Comparative Tracking Index (Solution A)	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.800 mm)	V-0	--		UL 94
Glow Wire Flammability Index (0.800 mm)	960	--	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	775	--	°C	IEC 60695-2-13
Oxygen Index	38	--	%	ISO 4589-2
NOTE				
1.	10 K/min, DSC			

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