

AKROMID® B3 S1 natural (3715)

Polyamide 6
AKRO-PLASTIC GmbH

Message:

AKROMID® B3 S1 natural (3715) is an nonreinforced, cold impact strength polyamide 6 with light inherent color
Applications are mountings and dowels in the furniture and construction industry

General Information				
Features		Low Temperature Impact Resistance		
Uses		Furniture Industrial Applications		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA6-I		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.05	--	g/cm ³	ISO 1183
Spiral Flow	60.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.9	--	%	
Flow	1.5	--	%	
Humidity Absorption - 62% RH (70°C)	2.0	--	%	ISO 1110
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2000	550	MPa	ISO 527-2/1
Tensile Stress (Yield)	50.0	45.0	MPa	ISO 527-2/50
Tensile Strain				ISO 527-2/50
Yield	4.2	30	%	
Break	> 50	> 100	%	
Flexural Modulus ¹	1500	650	MPa	ISO 178
Flexural Stress ²				ISO 178
-- ³	50.0	--	MPa	
--	65.0	--	MPa	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	55	45	kJ/m ²	
23°C	50	110	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	48.0	--	°C	ISO 75-2/A
Melting Temperature ⁴	223	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94

NOTE

- | | |
|----|--------------------------|
| 1. | 2.0 mm/min |
| 2. | 2.0 mm/min |
| 3. | Standard Flexural Stress |
| 4. | 10 K/min, DSC |
| 5. | > 1 mm |

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