

AKROMID® A3 GF 30 S1 natural (3695)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 30 S1 natural (3695) is a 30% glass fibre reinforced, low-temperature impact resistant Polyamid 6.6 with high stiffness and strength. Applications are precisions parts in automotive industry.

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		High Stiffness		
		High Strength		
		Low Temperature Impact Resistance		
Uses		Automotive Applications		
Appearance		Natural Color		
Resin ID (ISO 1043)		PA66-I GF30		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.34	--	g/cm ³	ISO 1183
Spiral Flow	60.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.30	--	%	
Humidity Absorption - 62% RH (70°C)	1.7	--	%	ISO 1110
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9500	8000	MPa	ISO 527-2/1
Tensile Stress (Break)	180	130	MPa	ISO 527-2/5
Tensile Strain (Break)	4.0	6.0	%	ISO 527-2/5
Flexural Modulus ¹	8800	--	MPa	ISO 178
Flexural Stress ²	280	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	20	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	110	--	kJ/m ²	
23°C	110	97	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	253	--	°C	ISO 75-2/A

Melting Temperature ³	262	--	°C	DIN EN 11357-1
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁴ (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. | 10 K/min, DSC |
| 4. | > 1 mm |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT