

AKROMID® A3 GF 30 4 natural (3396)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 30 4 natural (3396) is a 30% glass fibre reinforced, high heat stabilised, hydrolysis- and chemical resistant polyamide 6.6 with characteristic colour.
Applications are functional parts in the heating- and cooling system in the automotive industry

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Good Chemical Resistance			
	Heat Stabilized			
	Hydrolysis Resistant			
Uses	Automotive Applications			
Appearance	Natural Color			
Resin ID (ISO 1043)	PA66 GF30			
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.36	--	g/cm ³	ISO 1183
Spiral Flow	76.0	--	cm	Internal Method
Water Absorption (Saturation, 23°C)	4.5	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	1.9	--	%	ISO 1110
Flexural Strain at Break ¹	4.0	--	%	ISO 178
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	6700	MPa	ISO 527-2/1
Tensile Stress (Break)	200	130	MPa	ISO 527-2/5
Tensile Strain (Break)	3.7	7.0	%	ISO 527-2/5
Flexural Modulus ²	9500	--	MPa	ISO 178
Flexural Stress ³	300	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	10	--	kJ/m ²	
23°C	12	17	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-40°C	73	--	kJ/m ²	
23°C	100	100	kJ/m ²	

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	253	--	°C	ISO 75-2/A
Melting Temperature ⁴	262	--	°C	DIN EN 11357-1
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
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 mm/min			
2.	2.0 mm/min			
3.	2.0 mm/min			
4.	10 K/min, DSC			
5.	> 1 mm			

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