AKROMID® A3 GF 10 natural (2852)

Polyamide 66

AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 10 natural (2852) is a 10% glass fibre reinforced polyamide 6.6 with medium stiffness and strength and light inherent color
Applications are mainly components in mechanical engineering and in the automotive industry

General Information				
Filler / Reinforcement	Glass Fiber,10% Filler by Weight			
Features	Good Stiffness Good Strength			
Uses	Engineered Applications			
Appearance	Natural Color			
Resin ID (ISO 1043)	PA66 GF10			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.20	--	g/cm³	ISO 1183
Spiral Flow	102	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.5	--	%	
Flow	0.60	--	%	
Water Absorption (Saturation, 23°C)	7.5 to 8.0	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	2.6 to 2.8	--	%	ISO 1110
Temperature Index				IEC 216
50% Loss of Tensile Strength, 20000 hr	130 to 150	--	°C	
50% Loss of Tensile Strength, 5000 hr	160 to 175	--	°C	
Reinforcement Content	10	--	%	ISO 1172
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	4800	2800	MPa	ISO 527-2/1
Tensile Stress (Break)	115	70.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	20	%	ISO 527-2/5
Flexural Modulus [1]	4400	--	MPa	ISO 178
Flexural Stress [2]	170	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	4.0	--	kJ/m²	
23°C	4.0	5.0	kJ/m²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-10°C	37	--	kJ/m²	
23°C	38	120	kJ/m²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	--	°C	ISO 75-2/A
Melting Temperature [3]	262	--	°C	DIN EN 11357-1
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	--	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**
Burning Rate [4] (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Flammability Index (1.60 mm)	650	--	°C	IEC 60695-2-12

NOTE	
1.	2.0 mm/min
2.	2.0 mm/min
3.	10 K/min, DSC
4.	>1 mm

Recommended distributors for this material

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