AKROMID® A3 GF 30 4 6 black (1369)

Polyamide 66

AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 30 4 6 black (1369) is a 30% glass fibre reinforced, high heat stabilised, hydrolysis- and chemical resistant polyamide 6.6 with high stiffness and strength
Applications are functional parts in the heating- and cooling system in the automotive industry

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Additive	heat stabilizer
Features	Rigidity, high High strength Good chemical resistance Hydrolysis resistance Thermal Stability
Uses	Application in Automobile Field
Appearance	Black
Resin ID (ISO 1043)	PA66 GF30

Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.36	--	g/cm³	ISO 1183
Spiral Flow	76.0	--	cm	Internal method
Molding Shrinkage				ISO 294-4
Transverse flow	1.1	--	%	ISO 294-4
Flow	0.30	--	%	ISO 294-4
Water Absorption (Saturation, 23°C)	4.5	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	1.9	--	%	ISO 1110
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)	3.5	7.0	%	ISO 527-2/5
Flexural Modulus [1]	9500	--	MPa	ISO 178
Flexural Stress [2]	300	--	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-40°C	10	--	kJ/m²	ISO 179/1eA
23°C	12	17	kJ/m²	ISO 179/1eA

Charpy Unnotched Impact Strength				ISO 179/1eU
-40°C	73	--	kJ/m²	ISO 179/1eU
23°C	86	95	kJ/m²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	265	--	°C	ISO 75-2/B
1.8 MPa, not annealed	253	--	°C	ISO 75-2/A
8.0 MPa, not annealed	210	--	°C	ISO 75-2/C
Melting Temperature [3]	262	--	°C	DIN EN 11357-1
Linear thermal expansion coefficient				ISO 11359-2
Flow: 23 to 80°C	1.9E-5	--	cm/cm/°C	ISO 11359-2
Lateral: 23 to 80°C	9.5E-5	--	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Volume Resistivity	1.0E+15	--	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 (1.6 mm)	HB	--		UL 94

NOTE	
1.	2.0 mm/min
2.	2.0 mm/min
3.	10°C/min
4.	>1 mm

Recommended distributors for this material

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