AKROMID® B3 GF 30 1 natural (2464)

Polyamide 6

AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GF 30 1 natural (2464) is a 30% glass fibre reinforced, heat stabilised polyamide 6 with high rigidity and strength and light inherent color, UL listed.
Applications are mainly components in mechanical engineering and in the automotive industry

General Information				
UL YellowCard	E148915-101075626			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Heat Stabilized High Rigidity High Strength			
Uses	Engineered Applications			
Appearance	Natural Color			
Resin ID (ISO 1043)	PA6 GF30			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.36	--	g/cm³	ISO 1183
Spiral Flow	66.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.10	--	%	
Water Absorption (Saturation, 23°C)	6.3 to 6.9	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	2.1 to 2.3	--	%	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	30	--	%	ISO 1172
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 961/30)	230	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	10300	6200	MPa	ISO 527-2/1
Tensile Stress (Break)	185	110	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	5.5	%	ISO 527-2/5

Flexural Modulus [1]	8500	--	MPa	ISO 178
Flexural Stress [2]	270	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	12	--	kJ/m²	
23°C	13	18	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	--	kJ/m²	
23°C	95	110	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	150	--	°C	ISO 75-2/C
Melting Temperature [3]	220	--	°C	DIN EN 11357-1
CLTE				ISO 11359-2
Flow : 23 to 80°C	1.6E-5	--	cm/cm/°C	
Transverse : 23 to 80°C	9.5E-5	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+13	1.0E+10	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 (0.800 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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