AKROMID® A3 GF 20 1 natural (1261)

Polyamide 66

AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 20 1 natural (1261) is a 20% glass fibre reinforced and heat stabilised polyamide 6.6 with medium stiffness and strength and light inherent color, UL listed.
Applications are mainly components in mechanical engineering and in the automotive industry

General Information				
UL YellowCard	E148915-101075625			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight			
Additive	heat stabilizer			
Features	Rigid, good Thermal Stability Medium strength			
Uses	Engineering application			
Appearance	Natural color			
Resin ID (ISO 1043)	PA66 GF20			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.28	--	g/cm³	ISO 1183
Spiral Flow	95.0	--	cm	Internal method
Molding Shrinkage				ISO 294-4
Vertical flow direction	1.3	--	%	ISO 294-4
Flow direction	0.30	--	%	ISO 294-4
Water Absorption (Saturation, 23°C)	6.7 - 7.2	--	%	ISO 62
Humidity Absorption - 62% RH (70°C)	2.3 - 2.5	--	%	ISO 1110
Temperature index				IEC 216
50% Loss of Tensile Strength, 20000 hr	130 - 150	--	°C	IEC 216
50% Loss of Tensile Strength, 5000 hr	160 - 175	--	°C	IEC 216
Reinforcement Content	20	--	%	ISO 1172
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 961/30)	210	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	7200	4600	MPa	ISO 527-2/1
Tensile Stress (Break)	160	100	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	8.0	%	ISO 527-2/5

Flexural Modulus [1]	7000	5000	MPa	ISO 178
Flexural Stress [2]	235	165	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	8.0	--	kJ/m²	ISO 179/1eA
23°C	9.0	--	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	48	--	kJ/m²	ISO 179/1eU
23°C	60	86	kJ/m²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	260	--	°C	ISO 75-2/B
1.8 MPa, not annealed	250	--	°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 (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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