AKROMID® B3 GM 10/20 1 L black (4646)

Polyamide 6 + PP

AKRO-PLASTIC GmbH

Message:

AKROMID® B3 GM 10/20 1 L black (4646) is a 10% glass fibre reinforced, 20% glass bead filled and heat stabilised polyamide-blend with a reduced density compared to standard PA6 GF10 + GB20
Applications are mainly optical components in the automotive and electronic industry, where a weight and cost reduction is required

General Information				
Filler / Reinforcement	Glass Bead,20% Filler by Weight Glass Fiber,10% Filler by Weight			
Additive	Heat Stabilizer			
Features	Heat Stabilized Low Density			
Uses	Automotive Applications Electrical/Electronic Applications Optical Applications			
Appearance	Black			
Resin ID (ISO 1043)	PA6 + PP GF10 + GB20			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density (23°C)	1.26	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	18.0	--	cm³/10min	ISO 1133
Spiral Flow	73.0	--	cm	Internal Method
Molding Shrinkage				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.50	--	%	
Humidity Absorption - 62% RH (70°C)	1.4	--	%	ISO 1110
Reinforcement Content	30	--	%	ISO 1172
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	5100	3300	MPa	ISO 527-2/1
Tensile Stress (Break)	88.0	55.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.4	6.0	%	ISO 527-2/5
Flexural Modulus [1]	4700	--	MPa	ISO 178
Flexural Stress [2]	130	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA

-30°C	4.0	4.0	kJ/m²	
23°C	7.0	9.0	kJ/m²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	43	42	kJ/m²	
23°C	46	44	kJ/m²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	208	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	165	--	°C	ISO 75-2/A
Melting Temperature [3]	220	--	°C	DIN EN 11357-1
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

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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