

AKROMID® A3 GM 20/10 4 WIT black (4529)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GM 20/10 4 WIT black (4529) is a 20% glass fibre reinforced and 10% glass bead filled, hydrolysis/chemical stabilised polyamide 6.6 with good surface and low warpage.
Applications are engineering parts, which are produced by water injection technology.

General Information				
Filler / Reinforcement		Glass Bead,10% Filler by Weight Glass Fiber,20% Filler by Weight		
Additive		Hydrolysis Resistant		
Features		Good Chemical Resistance Good Surface Finish Hydrolysis Resistant Low Warpage		
Uses		Engineering Parts		
Appearance		Black Natural Color		
Processing Method		Water-Assisted Injection Molding		
Resin ID (ISO 1043)		PA66 GF20 + GB10		
Physical	Dry	Conditioned	Unit	Test Method
Density (23°C)	1.36	--	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	6.00	--	cm³/10min	ISO 1133
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.40	--	%	
Humidity Absorption - 62% RH (70°C)	2.0	--	%	ISO 1110
Flexural Strain at Break ¹	4.6	7.5	%	ISO 178
Reinforcement Content	30	--	%	ISO 1172
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8200	5200	MPa	ISO 527-2/1
Tensile Stress (Break)	175	100	MPa	ISO 527-2/5
Tensile Strain (Break)	3.7	12	%	ISO 527-2/5
Flexural Modulus ²	7600	5200	MPa	ISO 178
Flexural Stress ³	260	170	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	7.0	6.5	kJ/m ²	
23°C	9.0	9.5	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	50	48	kJ/m ²	
23°C	65	80	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	240	--	°C	ISO 75-2/A
Melting Temperature ⁴	262	--	°C	DIN EN 11357-1
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
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
NOTE				
1.	2 mm/min			
2.	2.0 mm/min			
3.	2.0 mm/min			
4.	10 K/min, DSC			
5.	> 1 mm			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT