

AKROMID® A3 GF 55 black (2654)

Polyamide 66
AKRO-PLASTIC GmbH

Message:

AKROMID® A3 GF 55 black (2654) is a 55% glass fibre reinforced polyamide 6.6 with very high rigidity and strength
Applications are mainly components in mechanical engineering and in the automotive industry

General Information			
Filler / Reinforcement	Glass Fiber,55% Filler by Weight		
Features	High Rigidity		
	High Strength		
Uses	Engineered Applications		
Appearance	Black		
Resin ID (ISO 1043)	PA66 GF55		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.63	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.80	%	
Flow	0.40	%	
Humidity Absorption - 62% RH (70°C)	1.3	%	ISO 1110
Flexural Strain at Break ¹	3.5	%	ISO 178
Reinforcement Content	55	%	ISO 1172
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2/1
Tensile Stress (Break)	250	MPa	ISO 527-2/5
Tensile Strain (Break)	2.5	%	ISO 527-2/5
Flexural Modulus ²	19000	MPa	ISO 178
Flexural Stress ³	410	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	18	kJ/m ²	
23°C	20	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	100	kJ/m ²	
23°C	110	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Unannealed	260	°C	ISO 75-2/A
8.0 MPa, Unannealed	210	°C	ISO 75-2/C

Melting Temperature ⁴	262	°C	DIN EN 11357-1
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁵ (1.00 mm)	< 100	mm/min	FMVSS 302
Flame Rating (1.60 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

