

SCANAMID 6 B12^ F50

Polyamide 6

Polykemi AB

Message:

Glass fibre-reinforced

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.56	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.20	--	%	
Hardness	Dry	Conditioned	Unit	Test Method
Durometer Hardness (Shore D, 15 sec)	81	--		ASTM D2240
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	16000	12700	MPa	ISO 527-2
Tensile Stress	210	150	MPa	ISO 527-2
Tensile Strain (Break)	2.0	2.5	%	ISO 527-2
Flexural Modulus (23°C)	14000	12500	MPa	ISO 178
Flexural Stress	290	270	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179
-30°C	8.5	--	kJ/m ²	
-20°C	12	--	kJ/m ²	
23°C	13	16	kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break	--		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature ¹				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	--	°C	ISO 75-2/A
Vicat Softening Temperature	> 200	--	°C	ISO 306/B50
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.60 mm)	HB	--		UL 94
Glow Wire Ignition Temperature (2.00 mm)	650	--	°C	IEC 60695-2-13
NOTE				

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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

