

SCANAMID 6 B12[^] F50

Polyamide 6
Polykemi AB

PROSPECTOR[®]

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Technical Data

Product Description

SCANAMID 6 B12[^] F50 is a Polyamide 6 (Nylon 6) product filled with 50% glass fiber. It is available in Asia Pacific, Europe, Latin America, or North America. Primary characteristic: flame rated.

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• Polykemi AB • SCANAMID 6
Availability	• Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight
Features	• High Density • Medium Flow

Physical	Dry	Conditioned	Unit	Test Method
Density	1.56	--	g/cm ³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	0.80	--	%	
Flow	0.20	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	16000	12700	MPa	ISO 527-1
Tensile Stress (Break)	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	190	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
Hardness	Dry	Conditioned	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	81	--		ISO 7619-1
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load ²				
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 (1.6 mm)	HB	--		UL 94
Glow Wire Flammability Index (2.0 mm)	650	--	°C	IEC 60695-2-12

Injection

Dry Unit

Drying Temperature	75 °C
Drying Time	2.0 to 8.0 hr
Suggested Max Moisture	< 0.10 %
Processing (Melt) Temp	260 to 290 °C
Mold Temperature	70 to 100 °C
Back Pressure	6.00 to 10.0 MPa
Peripheral Screw Speed	15 to 27 m/min

Notes

¹ Typical properties: these are not to be construed as specifications.

² 120°C/h



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Where to Buy

Supplier

Polykemi AB

Ystad, Ystad Sweden

Telephone: +46-411-170-30

Web: <http://www.polykemi.se/>

Distributor

Please contact the supplier to find a distributor for SCANAMID 6 B12[^] F50

