

SCANAMID 6

B12[^] F50

Features High density Medium flow

Fillers Glass fiber

Feature	Value	Unit	Testmethod
PHYSICAL PROPERTIES			
Density	1,56	g/cm ³	ISO 1183
Viscosity	--	Pas	--
MECHANICAL PROPERTIES			
Flexural modulus at +23°C	14000 (12500)	MPa	ISO 178
Tensile modulus at +23°C	16000 (12700)	MPa	ISO 527-2
Maximum flexural strength	290 (270)	MPa	ISO 178
Maximum tensile strength	210 (150)	MPa	ISO 527-2
Elongation at break	2 (2,5)	%	ISO 527-2
Elongation at yield	--	%	ISO 527-2
IMPACT PROPERTIES			
Impact strength	--	--	--
Notched Charpy at +23°C	13 (16)	kJ/m ²	ISO 179
Notched Charpy at -20°C	12	kJ/m ²	ISO 179
Notched Charpy at -30°C	8,5	kJ/m ²	ISO 179
Unnotched Charpy at +23°C	NB	kJ/m ²	ISO 179
Unnotched Charpy at -20°C	--	kJ/m ²	ISO 179
THERMAL PROPERTIES			
Heat Distortion Temperature	--	--	--
HDT 120°C/h at 455kPa (B)	220	°C	ISO 75/1
HDT 120°C/h at 1820kPa (A)	215	°C	ISO 75/1
Softening temperature	--	--	--
Vicat 50°C/h at 9,81N (A)	--	°C	ISO 306
Vicat 50°C/h at 49,05N (B)	>200	°C	ISO 306
FLAMMABILITY PROPERTIES			
Flammability	--	--	--
GWT at 2 mm	650	°C	IEC 695-2-1
UL94 at 1.6 mm	HB	--	UL94
HARDNESS			
Hardness Shore D (15 s)	81	Shore D	D2240
ADDITIONAL INFORMATION			
"^" = additive# 0-9, no effect on material prop.	--	--	--
Filler content	50	±2%	ISO 3451
Mould shrinkage (with flow)	0,2	%	ISO 294-4
Mould shrinkage (across flow)	0,8	%	ISO 294-4

Values within (): 23°C, 50% RH, 24h

Stated values in this datasheet are approximate. The values originate, if nothing else is stated, from standardised test specimens in natural colour. All information, recommendations and advice given by Polykemi AB or any of its subsidiaries and affiliates, written or verbal, are according to Polykemi AB's knowledge to the date of this edition, correct and given in good faith. It is the responsibility of the customer to test and evaluate if the material suits the application and the environment in which it is intended to be used. Polykemi AB, its subsidiaries and affiliates can not be held responsible or liable for any loss incurred through incorrect or faulty use of the products. When producing details in flame retardant material, corrosion protected steel is to recommend for the mould. Polykemi AB takes no responsibility for any printing errors.

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Feature	Value	Unit	Testmethod
PROCESS INSTRUCTIONS			
Drying time	2-8	h	--
Drying temperature	75	°C	--
Maximal moisture content	< 0,1	%	--
Melt temperature	250-280	°C	--
Mould temperature	70-100	°C	--
Peripheral screw speed	250-450	mm/s	--
Back pressure	60-100	bar	--

Values within (): 23°C, 50% RH, 24h

During production stops, emptying the cylinder is recommended. Leave the screw in its front most position. For polycarbonate it is also recommended to leave the cylinder temperature at 160- 180°C and that the heating on the feeding zone is on. When producing details in flame retardant material, corrosion protected steel is to recommend for the mould. For further information, see the material safety datasheet (MSDS).

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