

SCANAMID 6

B12^ F50

Glass fibre-reinforced

Property	Value	Unit	Standard
"^" = additive# 0-9, no effect on material prop.			
Density	1,56	g/cm ³	ISO 1183
Viscosity		Pas	
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 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
Filler content	50	±2%	ISO 3451
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°/h at 9,81N (A)		°C	ISO 306
Vicat 50°C/h at 49,05N (B)	>200	°C	ISO 306
Flammability			
GWT at 2 mm	650	°C	IEC 695-2-1
UL94 at 1.6 mm	HB		UL94
Mould shrinkage (with flow)	0,2	%	ISO 294-4
Mould shrinkage (across flow)	0,8	%	ISO 294-4
Hardness Shore D (15 s)	81	Shore D	D2240

Values within (): 23°C, 50% RH, 24h

Version 3

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