

SCANAMID 6

B12^ F25 FR6

Glass fibre-reinforced

Flame retardant

Property	Value	Unit	Standard
"^" = additive# 0-9, no effect on material prop.			
Density	1,47	g/cm ³	ISO 1183
Viscosity		Pas	
Flexural modulus at +23°C	8200 (5900)	MPa	ISO 178
Maximum flexural strength	180 (135)	MPa	ISO 178
Maximum tensile strength	140 (110)	MPa	ISO 527-2
Elongation at break	3 (4)	%	ISO 527-2
Elongation at yield		%	ISO 527-2
Impact strength			
Notched Charpy at +23°C	8 (10)	kJ/m ²	ISO 179
Notched Charpy at -20°C	7	kJ/m ²	ISO 179
Unnotched Charpy at +23°C		kJ/m ²	ISO 179
Unnotched Charpy at -20°C		kJ/m ²	ISO 179
Filler content	25	±2%	ISO 3451
Heat Distortion Temperature			
HDT 120°C/h at 455kPa (B)	215	°C	ISO 75/1
HDT 120°C/h at 1820kPa (A)	205	°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	960	°C	IEC 695-2-1
UL94 at 1.6 mm	V0		UL94
Mould shrinkage (with flow)	0,3	%	ISO 294-4
Mould shrinkage (across flow)	0,8	%	ISO 294-4
Hardness Shore D (15 s)	80	Shore D	D2240

Values within (): 23°C, 50% RH, 24h

Version 4

2001-09-21

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.