

# SCANAMID 6

## B12 ^ NH6

**Features:** Flame retarded - Halogen free Medium flow

Feature	Value	Unit	Testmethod
<b>PHYSICAL PROPERTIES</b>			
Density	1,14	g/cm <sup>3</sup>	ISO 1183
Viscosity	--	Pas	--
<b>MECHANICAL PROPERTIES</b>			
Flexural modulus at +23°C	3000	MPa	ISO 178
Maximum flexural strength	115	MPa	ISO 178
Maximum tensile strength	74	MPa	ISO 527-2
Elongation at break	9	%	ISO 527-2
Elongation at yield	--	%	ISO 527-2
<b>IMPACT PROPERTIES</b>			
Impact strength	--	--	--
Notched Charpy at +23°C	5	kJ/m <sup>2</sup>	ISO 179
Notched Charpy at -20°C	--	kJ/m <sup>2</sup>	ISO 179
Unnotched Charpy at +23°C	--	kJ/m <sup>2</sup>	ISO 179
Unnotched Charpy at -20°C	--	kJ/m <sup>2</sup>	ISO 179
Izod notched at +23°C	--	kJ/m <sup>2</sup>	ISO 180/4A
<b>THERMAL PROPERTIES</b>			
Heat Distortion Temperature	--	--	--
HDT 120°C/h at 455kPa (B)	177	°C	ISO 75/1
HDT 120°C/h at 1820kPa (A)	63	°C	ISO 75/1
Softening temperature	--	--	--
Vicat 50°C/h at 9,81N (A)	216	°C	ISO 306
Vicat 50°C/h at 49,05N (B)	200	°C	ISO 306
<b>FLAMMABILITY PROPERTIES</b>			
Flammability	--	--	--
GWFI at 2 mm	960	°C	IEC 60695-2-12
UL94 at 1.6 mm	V0	--	UL94
<b>HARDNESS</b>			
Hardness Shore D (15 s)	--	Shore D	ISO 7619-1
<b>ADDITIONAL INFORMATION</b>			
"^" = additive# 0-9, no effect on material prop.	--	--	--
Filler content	--	±2%	ISO 3451
Mould shrinkage (with flow)	1,0-1,2	%	Polykemi
Mould shrinkage (across flow)	1,0-1,2	%	Polykemi

Stated values in this datasheet are approximate. The values originate, if nothing else is stated, from standardized test specimens in natural color. All information, recommendations and advice, written or verbal, given by an individual company within, or agent affiliated with, The Polykemi Group are according to our 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. Companies within, or agent affiliated with, The Polykemi Group 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.

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Feature	Value	Unit	Testmethod
<b>PROCESS INSTRUCTIONS</b>			
Drying time	2-8	h	--
Drying temperature	75	°C	--
Maximal moisture content	< 1,0	%	--
Melt temperature	250-280	°C	--
Mould temperature	60-80	°C	--
Peripheral screw speed	250-450	mm/s	--
Back pressure	60-100	bar	--

Further material information is available upon request

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