

**Features** Flame retarded

Feature	Value	Unit	Testmethod
<b>PHYSICAL PROPERTIES</b>			
Density	1,20	g/cm <sup>3</sup>	ISO 1183
MFI at 260°C/5kg	30	g/10min	ISO 1133
<b>MECHANICAL PROPERTIES</b>			
Flexural modulus at +23°C	2600	MPa	ISO 178
Maximum flexural strength	90	MPa	ISO 178
Maximum tensile strength	57	MPa	ISO 527-2
Elongation at break	--	%	ISO 527-2
Elongation at yield	7,5	%	ISO 527-2
<b>IMPACT PROPERTIES</b>			
Impact strength	--	--	--
Notched Charpy at +23°C	18	kJ/m <sup>2</sup>	ISO 179
Notched Charpy at -30°C	3	kJ/m <sup>2</sup>	ISO 179
Unnotched Charpy at +23°C	NB	kJ/m <sup>2</sup>	ISO 179
Unnotched Charpy at -30°C	NB	kJ/m <sup>2</sup>	ISO 179
<b>THERMAL PROPERTIES</b>			
Heat Distortion Temperature	--	--	--
HDT 120°C/h at 455kPa (B)	120/120	°C	ISO 75/1
HDT 120°C/h at 1820kPa (A)	106/101	°C	ISO 75/1
Softening temperature	--	--	--
Vicat 50°C/h at 9,81N (A)	132	°C	ISO 306
Vicat 50°C/h at 49,05N (B)	118	°C	ISO 306
<b>FLAMMABILITY PROPERTIES</b>			
Flammability	--	--	--
GWFI at 1.6 mm	960	°C	IEC 60695-2-12
UL94 at 1.6 mm	V0	--	UL94
UL94 at 2.5 mm	V0	--	UL94
UL94 at 3.2 mm	V0	--	UL94
<b>HARDNESS</b>			
Ball pressure test	110	°C	IEC 60335-1
<b>ADDITIONAL INFORMATION</b>			
Filler content	--	±2%	ISO 3451
Mould shrinkage (with flow)	0,5-0,7	%	ISO 294-4
Mould shrinkage (across flow)	0,5-0,7	%	ISO 294-4

HDT (annealed/unannealed)

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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<b>PROCESS INSTRUCTIONS</b>			
Drying time	2-8	h	--
Drying temperature	80-100	°C	--
Maximal moisture content	<0,02	%	--
Melt temperature	240-260	°C	--
Mould temperature	70-100	°C	--
Peripheral screw speed	300-500	mm/s	--
Back pressure	60-100	bar	--

HDT (annealed/unannealed)

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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**Tel:** +46 411-170 30 | **Fax:** +46 411-16730 | **E-mail:** info@polykemi.se | **www.polykemi.se**  
**Polykemi AB, Bronsgatan 8, Box 14, 271 21 Ystad, Sweden**