POLYform

POM C M90

polykemi
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Feature	Value	Unit	Testmethod
PHYSICAL PROPERTIES			
Density	1,41	g/cm³	ISO 1183
MFI at 190°C/2,16kg	9	g/10min	ISO 1133
MECHANICAL PROPERTIES			
Flexural modulus at +23°C	2600	MPa	ISO 178
Maximum flexural strength	95	MPa	ISO 178
Maximum tensile strength	65	MPa	ISO 527-2
Elongation at break	--	%	ISO 527-2
Elongation at yield	9	%	ISO 527-2
IMPACT PROPERTIES			
Impact strength	--	--	--
Notched Charpy at +23°C	8	kJ/m²	ISO 179
Notched Charpy at -20°C	7	kJ/m²	ISO 179
Unnotched Charpy at +23°C	--	kJ/m²	ISO 179
Unnotched Charpy at -20°C	--	kJ/m²	ISO 179
THERMAL PROPERTIES			
Heat Distortion Temperature	--	--	--
HDT 120°C/h at 455kPa (B)	--	°C	ISO 75/1
HDT 120°C/h at 1820kPa (A)	104	°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)	151	°C	ISO 306
FLAMMABILITY PROPERTIES			
Flammability	--	--	--
GWT at 2 mm	--	°C	IEC 695-2-1
UL94 at 1.6 mm	--	--	UL94
ADDITIONAL INFORMATION			
Filler content	--	±2%	ISO 3451
Mould shrinkage (with flow)	1,8-2,0	%	ISO 294-4
Mould shrinkage (across flow)	1,8-2,0	%	ISO 294-4
PROCESS INSTRUCTIONS			
Drying time	2-4	h	--
Drying temperature	70-90	°C	--
Melt temperature	190-210	°C	--
Mould temperature	70-110	°C	--
Peripherical screw speed	150-450	mm/s	--
Back pressure	60-100	bar	--

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).

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

Version 1 - 2016-05-23