

HOSTAFORM® C 13031 K

Injection molding grade with moderate flow and higher strength; rigidity and hardness; with special chalk modified
 Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNR, 04-002, K5 POM copolymer Easy flowing Injection molding type with higher strength, rigidity and hardness with special chalk modified; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis resistance; high resistance to thermal and oxidative degradation; good wear properties UL-registration in natural and a thickness more than 1.5 mm as UL 94 HB.
 Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm. Ranges of applications: For unlubricated or once-only-lubricant sliding Parts and gear wheels. FMVSS = Federal Motor Vehicle Safety Standard (USA)
 UL = Underwriters Laboratories (USA)

Product information

Part Marking Code	POM	ISO 11469
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Rheological properties

Melt volume-flow rate	11 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage range, parallel	2.0 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.8 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	3100 MPa	ISO 527-1/-2
Yield stress, 50mm/min	64 MPa	ISO 527-1/-2
Yield strain, 50mm/min	8 %	ISO 527-1/-2
Nominal strain at break	15 %	ISO 527-1/-2
Charpy notched impact strength, 23 °C	5 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	5 kJ/m ²	ISO 179/1eA

Thermal properties

Melting temperature, 10 °C/min	170 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	105 °C	ISO 75-1/-2
Vicat softening temperature, 50 °C/h, 50N	156 °C	ISO 306
Coeff. of linear therm. expansion, parallel	110 E-6/K	ISO 11359-1/-2

Flammability

Burning Behav. at 1.5mm nom. thickn.	HB class	UL 94
Thickness tested	1.5 mm	UL 94
Burning Behav. at thickness h	HB class	UL 94
Thickness tested	3.00 mm	UL 94
UL recognition	yes	UL 94



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Electrical properties

Relative permittivity, 100Hz	4.2	IEC 62631-2-1
Relative permittivity, 1MHz	4.2	IEC 62631-2-1
Dissipation factor, 100Hz	25 E-4	IEC 62631-2-1
Dissipation factor, 1MHz	80 E-4	IEC 62631-2-1
Volume resistivity	1E12 Ohm.m	IEC 62631-3-1
Surface resistivity	1E14 Ohm	IEC 62631-3-2
Electric strength	35 kV/mm	IEC 60243-1
Comparative tracking index	PLC 0 PLC	UL 746A

Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Water absorption, 2mm	0.65 %	Sim. to ISO 62
Density	1440 kg/m³	ISO 1183

Injection

Drying Temperature	100 - 120 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Processing Moisture Content	0.15 %
Screw tangential speed	0.2 - 0.21 m/s
Max. mould temperature	80 - 120 °C
Back pressure	2 MPa
Injection speed	slow

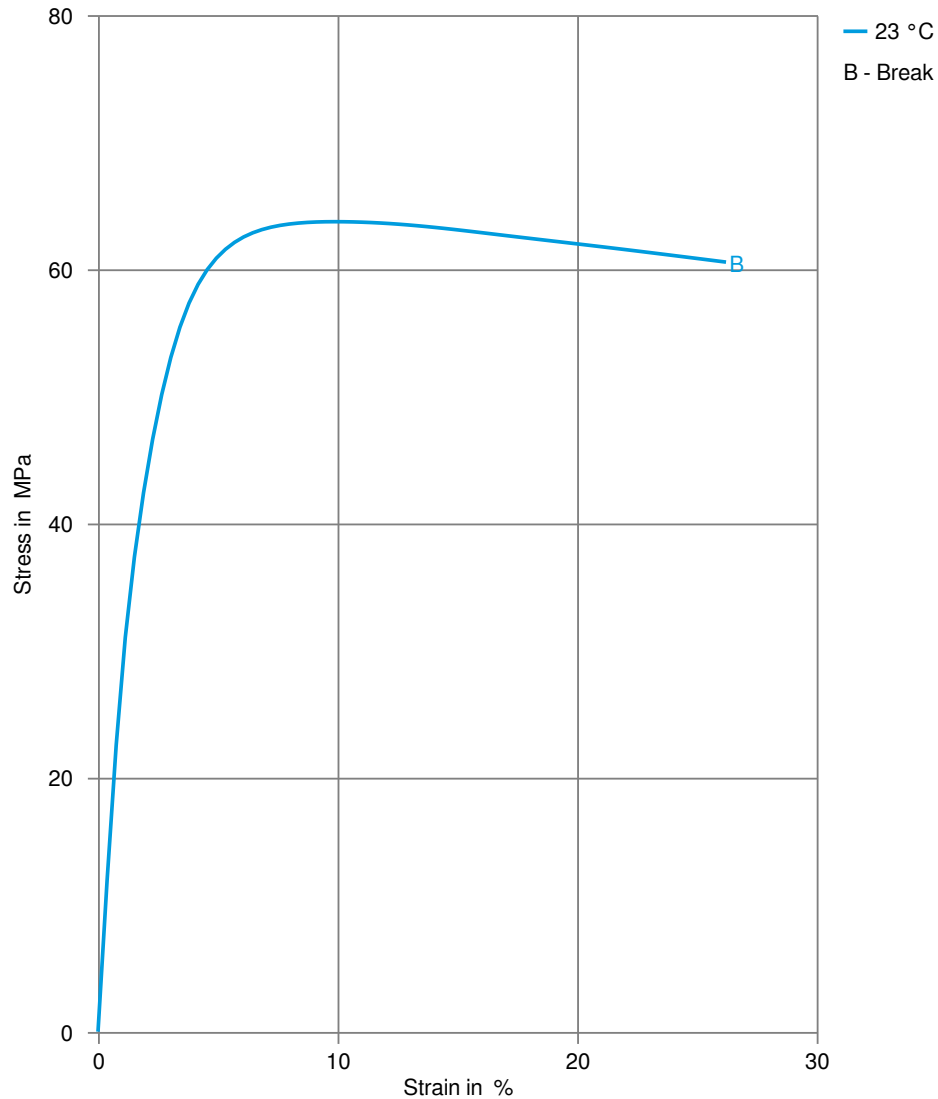
Characteristics

Additives	Release agent
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Stress-strain

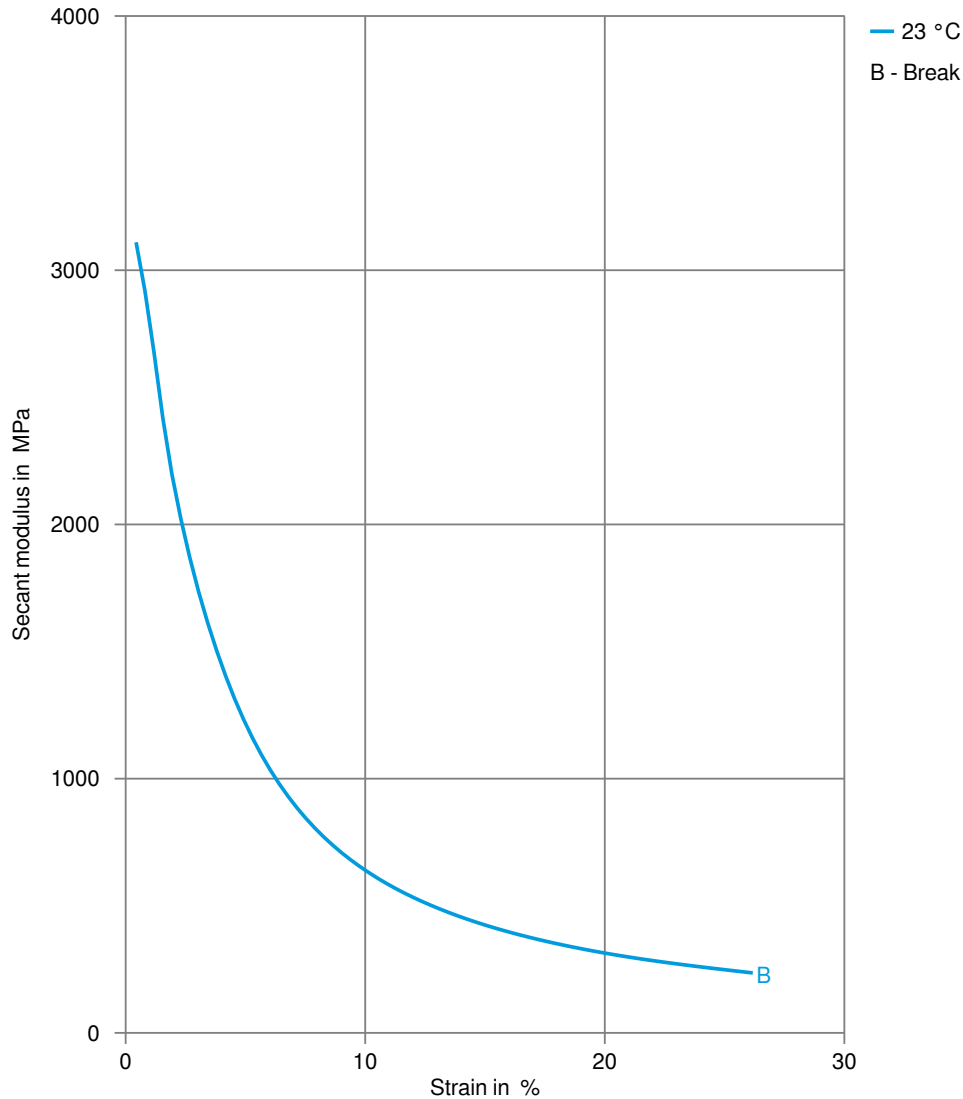


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Secant modulus-strain



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Processing Texts

Pre-drying	Drying is not normally required. If material has come in contact with moisture through improper storage or handling or through regrind use, drying may be necessary to prevent splay and odor problems.
Longer pre-drying times/storage	The product can then be stored in standard conditions until processed.
Injection molding Preprocessing	General drying is not necessary due to low moisture absorption of the resin. In case of bad storage conditions (water contact or condensed water) the use of a recirculating air dryer (100 to 120 °C / max. 40 mm layer / 3 to 6 hours) is recommended. Max. Water content 0,2 %
Injection molding Postprocessing	Conditioning e.g. moisturizing is not necessary.

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