

Injection molding grade with moderate flow; with improved friction properties
Chemical abbreviation according to ISO 1043-1: POM Molding compound ISO 29988- POM-K, M-GNS, 04-002 POM
copolymer Easy flowing Injection molding type, similar to C 13021 but modified for sliding combinations
HOSTAFORM/HOSTAFORM; good chemical resistance to solvents, fuel and strong alkalis as well as good hydrolysis
resistance; high resistance to thermal and oxidative degradation. Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for
a thickness more than 1 mm. Ranges of applications: favourite applications with sliding combinations
HOSTAFORM/HOSTAFORM, e.g. for smooth-running zippers, also sliding combinations with other plastics are possible.
FMVSS = Federal Motor Vehicle Safety Standard (USA)

#### Product information

Part Marking Code	POM		ISO 11469
Rheological properties			
Melt volume-flow rate	12.5	cm <sup>3</sup> /10min	ISO 1133
Temperature	190		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Load	2.16	kg	
Moulding shrinkage, parallel	2.0	•	ISO 294-4, 2577
Moulding shrinkage, normal	1.8	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile Modulus	2900	MPa	ISO 527-1/-2
Yield stress, 50mm/min	65	MPa	ISO 527-1/-2
Yield strain, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	28	%	ISO 527-1/-2
Flexural Modulus	2800	MPa	ISO 178
Tensile creep modulus, 1h	2500	MPa	ISO 899-1
Tensile creep modulus, 1000h	1300	MPa	ISO 899-1
Charpy impact strength, 23°C	200	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	200	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	6.5	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	6	kJ/m²	ISO 179/1eA
Ball indentation hardness, H 358/30	143	MPa	ISO 2039-1
Thermal properties			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	102	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	151	°C	ISO 306
Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2

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### **Electrical properties**

Relative permittivity, 100Hz	4	IEC 62631-2-1
Relative permittivity, 1MHz	4	IEC 62631-2-1
Dissipation factor, 100Hz	20 E-4	IEC 62631-2-1
Dissipation factor, 1MHz	50 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	1410 kg/m <sup>3</sup>	ISO 1183

## Injection

Drying Temperature	100 - 120 °C	2
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	2
Back pressure	2 MI	Pa
Injection speed	slow	

### Characteristics

Additives Release agent

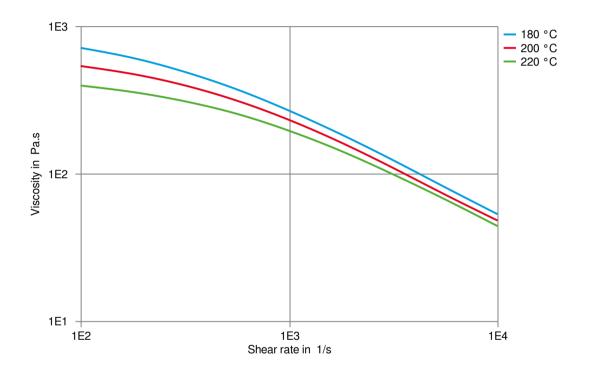
#### Additional information

Injection molding Standard injection moulding machines with three phase (15 to 25 D) plasticating screws will fit.

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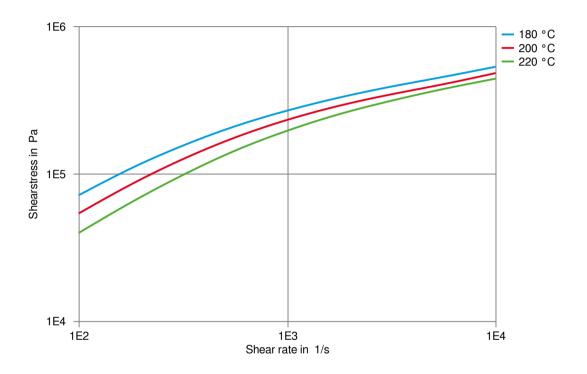
### Viscosity-shear rate



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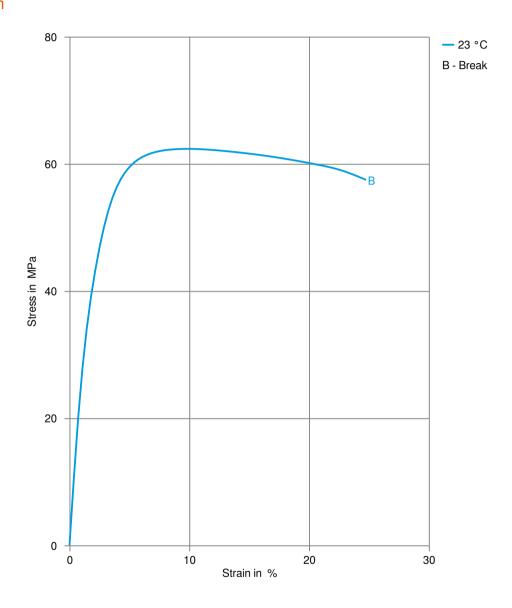
#### Shearstress-shear rate



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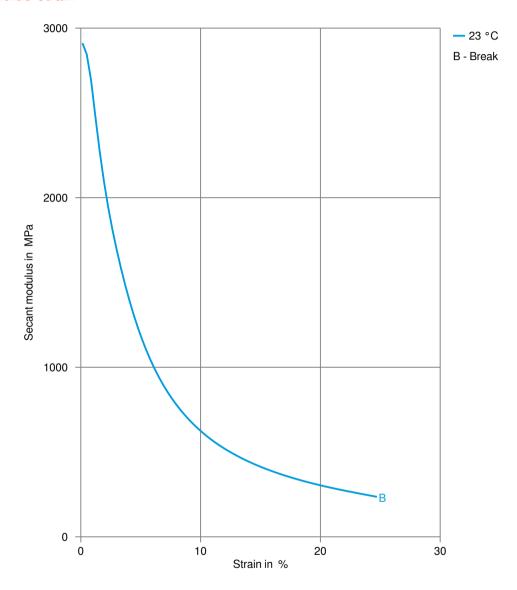
#### Stress-strain



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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 Standard injection moulding machines with three phase (15 to 25 D)

plasticating screws will fit.

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.

Other Approvals

Other Approvals

OEM	Specification
Continental	TST N 055 54.32

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Revised: 2023-05-26 Source: Celanese Materials Database

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