



HOSTAFORM®

Chemical abbreviation according to ISO 1043-1: POM-HI, Molding compound ISO 29988- POM-K, M-GNPR, 05-001 POM copolymer, modified Easy flowing, medium impact modified injection molding type with higher impact strength and slightly lower hardness, rigidity and chemical resistance than unmodified acetal copolymer; high resistance to thermal and oxidative degradation. UL-registration in natural and a thickness more than 1.57 mm as UL 94 HB. Burning rate ISO 3795 and FMVSS 302 < 100 mm/min for a thickness more than 1 mm thickness. Ranges of applications: For thin-walled molded parts with higher energy-absorbing capacity UL = Underwriters Laboratories (USA) FMVSS = Federal Motor Vehicle Safety Standard (USA)

ECO-B: Hostaform ECO-B is a POM-Copolymer with the same properties and performance as standard grades but produced with sustainability in mind. Using a mass-balance approach, biogenic feedstocks are used to offset the use of fossil-based raw materials and decrease greenhouse gas emissions. The process is audited and certified according to the ISCC Plus mass balance approach.

Product information

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Resin Identification	POM		ISO 1043
Part Marking Code	>POM<		ISO 11469
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Rheological properties			
Melt volume-flow rate	21	cm ³ /10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	1.9	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.8	%	ISO 294-4, 2577
Typical mechanical properties			
Tensile modulus	1950	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min		MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	30		ISO 527-1/-2
Flexural modulus	2100		ISO 178
Tensile creep modulus, 1h	1850	MPa	ISO 899-1
Tensile creep modulus, 1000h		MPa	ISO 899-1
Charpy impact strength, 23°C	140	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	90	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	9	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C		kJ/m²	ISO 179/1eA
Puncture energy, 23°C	8	J	ISO 6603-2
Ball indentation hardness, H 358/30	115	MPa	ISO 2039-1
Poisson's ratio	0.443		
Thermal properties			
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa		°C	ISO 75-1/-2
Coefficient of linear thermal expansion		E-6/K	ISO 11359-1/-2
(CLTE), parallel	120	L 0/10	100 11000-1/-2
(OLIL), parallel			

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Flammability

Burning Behav. at 1.5mm nom. thickn.	HB class	IEC 60695-11-10
Thickness tested	1.6 mm	IEC 60695-11-10
Burning Behav. at thickness h	HB class	IEC 60695-11-10
Thickness tested	3.17 mm	IEC 60695-11-10
UL recognition	yes	UL 94

Electrical properties

Relative permittivity, 100Hz	4.2		IEC 62631-2-1
Relative permittivity, 1MHz	4.2		IEC 62631-2-1
Dissipation factor, 100Hz	50 E	E-4	IEC 62631-2-1
Dissipation factor, 1MHz	150 E	E-4	IEC 62631-2-1
Volume resistivity	1E11(Ohm.m	IEC 62631-3-1
Surface resistivity	1E13(Ohm	IEC 62631-3-2
Electric strength	28 k	kV/mm	IEC 60243-1
Comparative tracking index	600		IEC 60112

Physical/Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Water absorption, 2mm	0.65 %	Sim. to ISO 62
Density	1390 kg/m ³	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	100	°C
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	195	°C
Min. melt temperature	190	°C
Max. melt temperature	200	°C
Screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	65	°C
Min. mould temperature	60	°C
Max. mould temperature	70	°C
Hold pressure range	60 - 120	MPa
Back pressure	2	MPa

Characteristics

Processing Injection Moulding

Delivery form Pellets

Additives Release agent
Special characteristics High Flow
Sustainability Bio-Content

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Additional information

Processing Notes

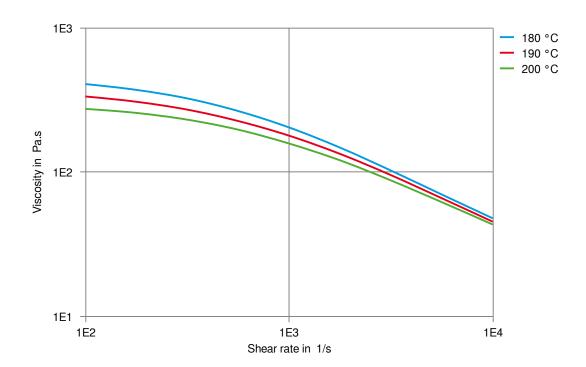
Pre-Drying

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.

Storage

The product can then be stored in standard conditions until processed.

Viscosity-shear rate

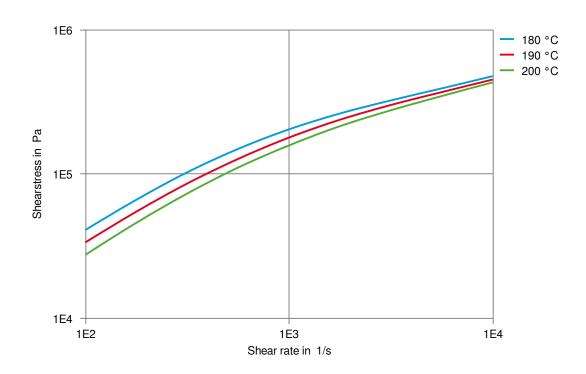


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Shearstress-shear rate



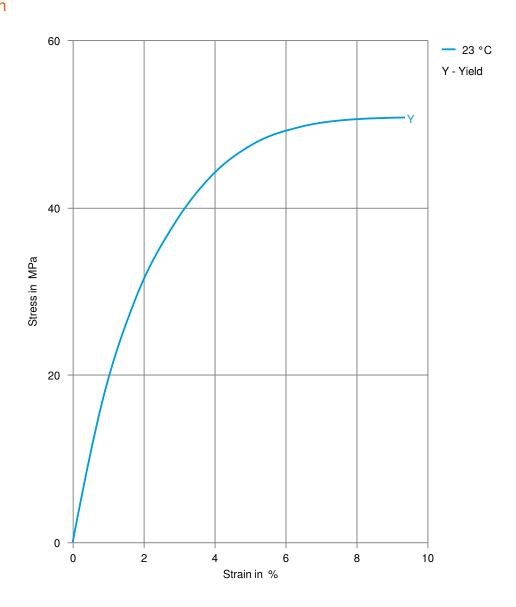
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Stress-strain



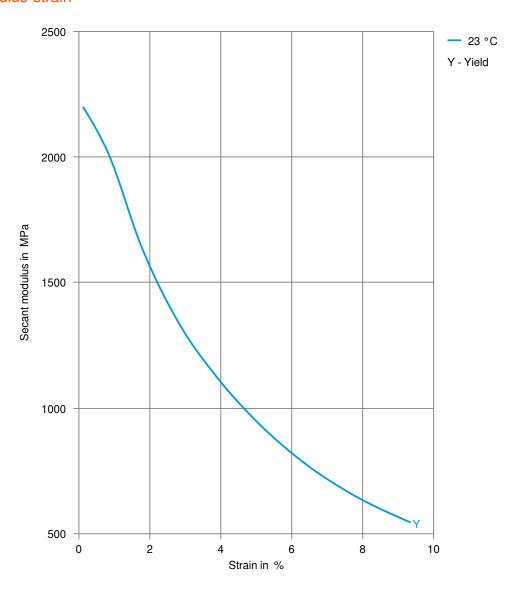
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Secant modulus-strain



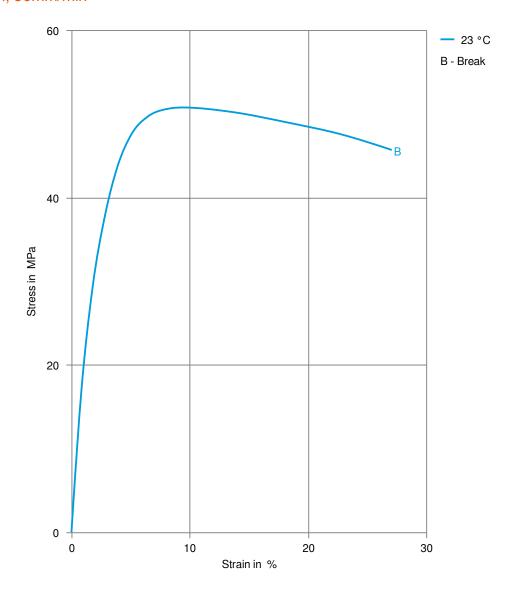
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Stress-strain, 50mm/min



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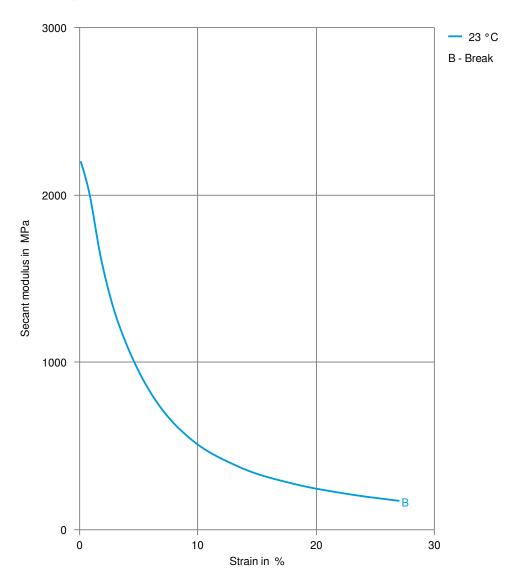
(+) 18816996168 Ponciplastics.com



HOSTAFORM® S 27063 ECO-B

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Secant modulus-strain, 50mm/min



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