

Impact modified, low emission

POM copolymer, modified Injection molding type, elastomer-containing; with higher impact strength and slightly lower hardness, rigidity and chemical resistance than the basic type HOSTAFORM® C 9021 Reduced emission grade, Emission according to VDA 275 < 5 mg/kg good weld strength. Burning rate according to FMVSS 302 < 100 mm/min (1 mm thickness) Preliminary Datasheet

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.

Rheological properties

Melt volume-flow rate	4 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
Yield stress, 50mm/min	44	MPa	ISO 527-1/-2
Yield strain, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	40	%	ISO 527-1/-2
Flexural Modulus	1850	MPa	ISO 178
Tensile creep modulus, 1h	1700	MPa	ISO 899-1
Tensile creep modulus, 1000h	950	MPa	ISO 899-1
Charpy impact strength, 23°C	NB	kJ/m²	ISO 179/1eU
Charpy impact strength, -30°C	200 ^[P]	kJ/m²	ISO 179/1eU
Charpy notched impact strength, 23°C	15	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	9	kJ/m²	ISO 179/1eA
[P]: Partial Break			

Thermal properties

Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	75	°C	ISO 75-1/-2
Vicat softening temperature, 50°C/h, 50N	130	°C	ISO 306
Coeff. of linear therm. expansion, parallel	120	E-6/K	ISO 11359-1/-2

Electrical properties

Relative permittivity, 100Hz	3.8	IEC 62631-2-1
Relative permittivity, 1MHz	3.8	IEC 62631-2-1
Dissipation factor, 100Hz	30 E-4	IEC 62631-2-1
Dissipation factor, 1MHz	60 E-4	IEC 62631-2-1
Volume resistivity	1E11 Ohm.m	IEC 62631-3-1

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Surface resistivity	1E13 Ohm	IEC 62631-3-2
Comparative tracking index	PLC 0 PLC	UL 746A

Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Water absorption, 2mm	1 %	Sim. to ISO 62
Density	1330 kg/m ³	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	3
Max. mould temperature	60 - 80 °C	
Back pressure	2 MP	'n
Injection speed	slow-medium	

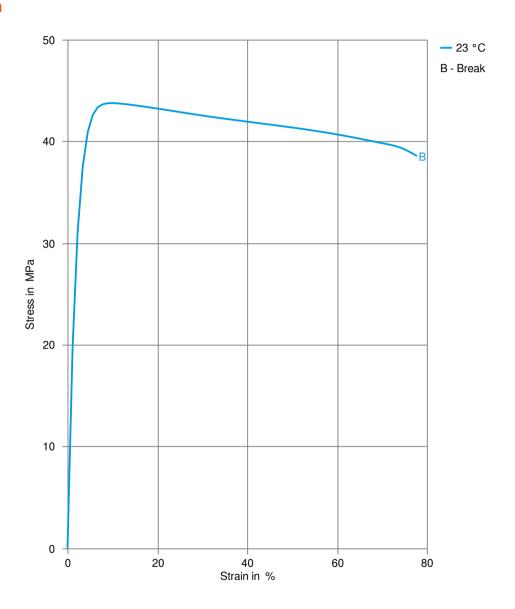
Characteristics

Additives Release agent, Biobased

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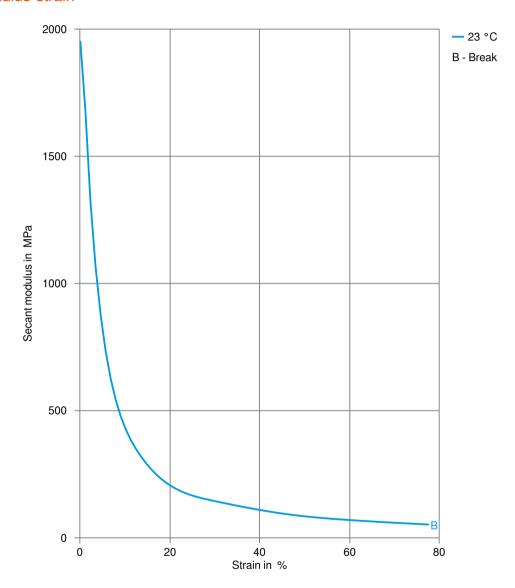
Stress-strain



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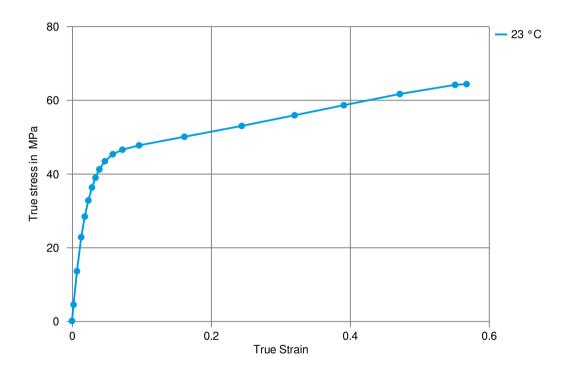
Secant modulus-strain



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True stress-strain



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Processing Texts

Pre-drying It is normally not necessary to dry HOSTAFORM. However, should there be

surface moisture (condensate) on the molding compound as a result of incorrect storage, drying is required. A circulating air drying cabinet can be used for this

purpose if the granul

Longer pre-drying times/storage The product can then be stored in standard conditions until processed.

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Revised: 2023-07-19 Source: Celanese Materials Database

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