HOSTAFORM® XGC25 XAP® ECO-B

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Hostaform® XGC25 XAP® is an acetal copolymer reinforced with approximately 25% glass fibers. Compared to the Hostaform® C 9021 GV 1/30, Hostaform® XGC25 XAP® has a higher strength and lower emissions.

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.

ISO 29988-POM-K,(GF25),EM,0-3

Product information

Resin Identification	POM-GF25	ISO 1043
Part Marking Code	>POM-GF25<	ISO 11469

Rheological properties

Melt volume-flow rate	2	cm^3/10min	ISO 1133
Temperature	190	°C	
Load	2.16	kg	
Moulding shrinkage, parallel	0.6	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.0	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	9000	MPa	ISO 527-1/-2
Tensile stress at break, 5mm/min	155	MPa	ISO 527-1/-2
Tensile strain at break, 5mm/min	3.5	%	ISO 527-1/-2
Flexural modulus	8300	MPa	ISO 178
Compressive stress at 1% strain	85	MPa	ISO 604
Charpy impact strength, 23°C	70	kJ/m^2	ISO 179/1eU
Charpy notched impact strength, 23°C	13	kJ/m^2	ISO 179/1eA
Charpy notched impact strength, -30°C	11	kJ/m^2	ISO 179/1eA
Poisson's ratio	0.34[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	160	°C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	30	E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	60	E-6/K	ISO 11359-1/-2

Physical/Other properties

Water absorption, 2mm	0.9	%	Sim. to ISO 62
Density	1580	kg/m^3	ISO 1183

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Injection

Drying Recommended	no	
Drying Temperature	100	°C
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	200	°C
Min. melt temperature	190	°C
Max. melt temperature	210	°C
Screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	100	°C
Min. mould temperature	80	°C
Max. mould temperature	120	°C
Hold pressure range	60 - 120	MPa
Back pressure	2	MPa

Characteristics

Processing	Injection Moulding
Special characteristics	Low emissions
Sustainability	Bio-Content

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.

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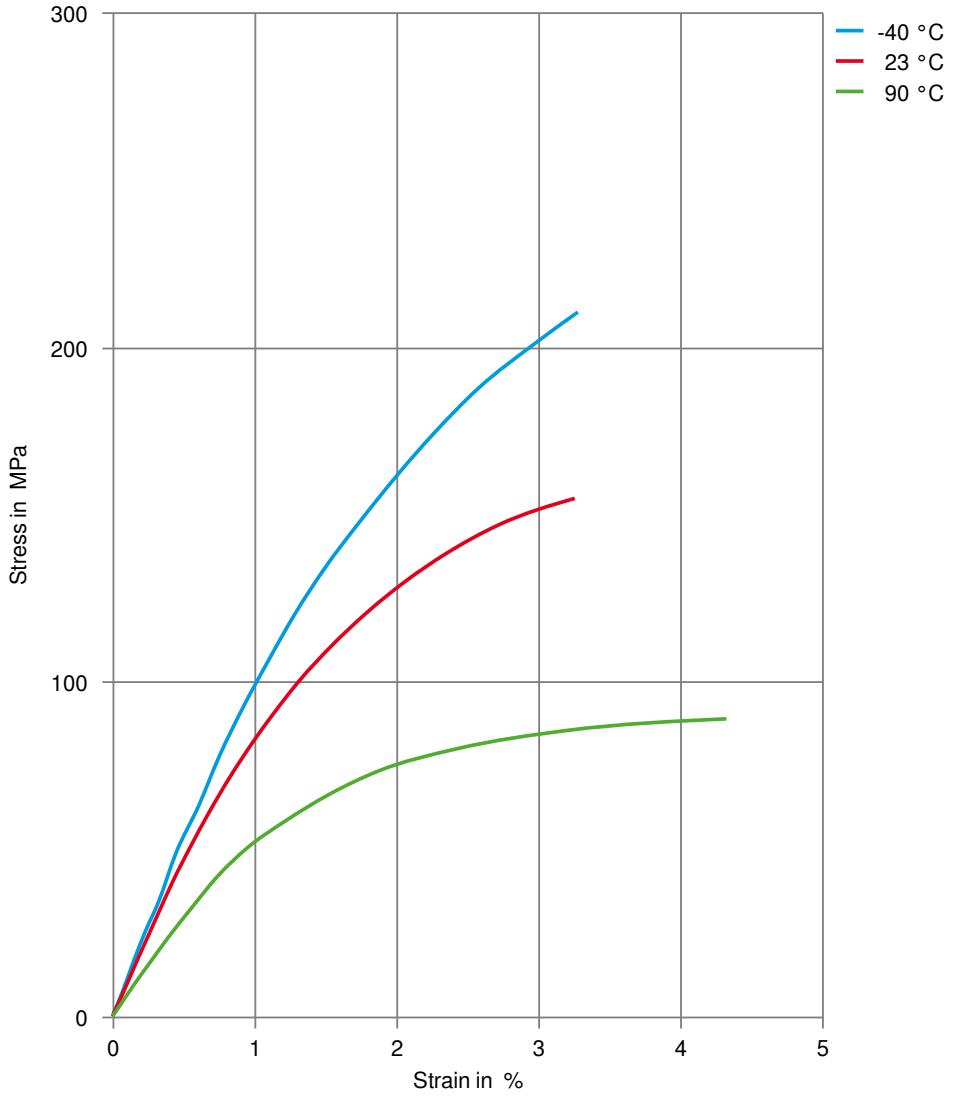
Stress-strain



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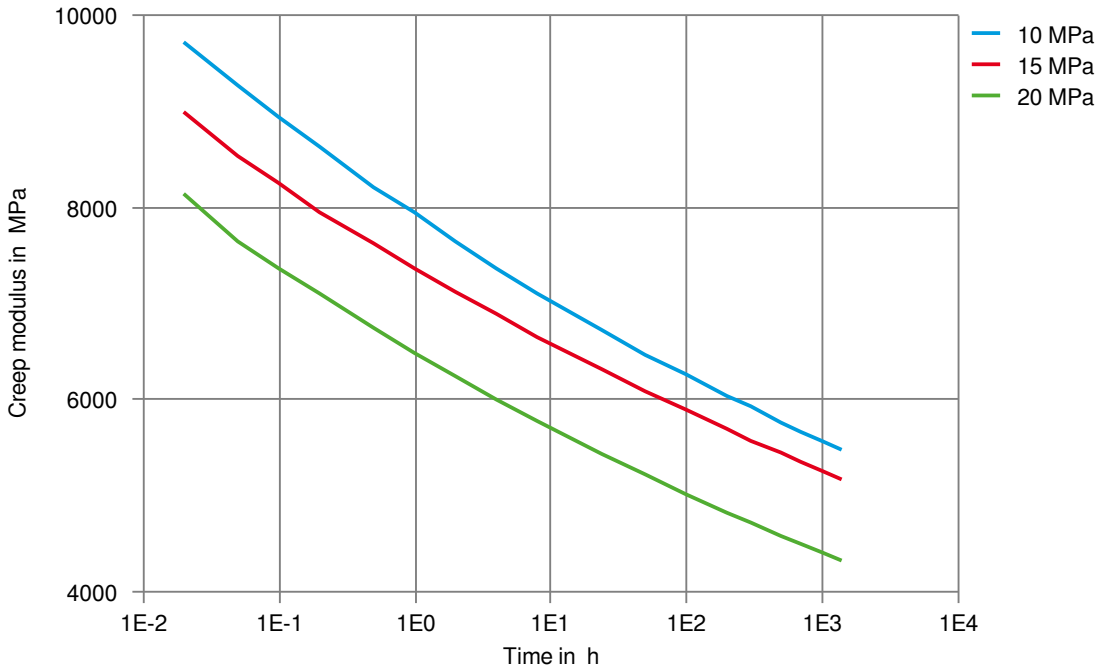
Creep modulus-time 90 °C



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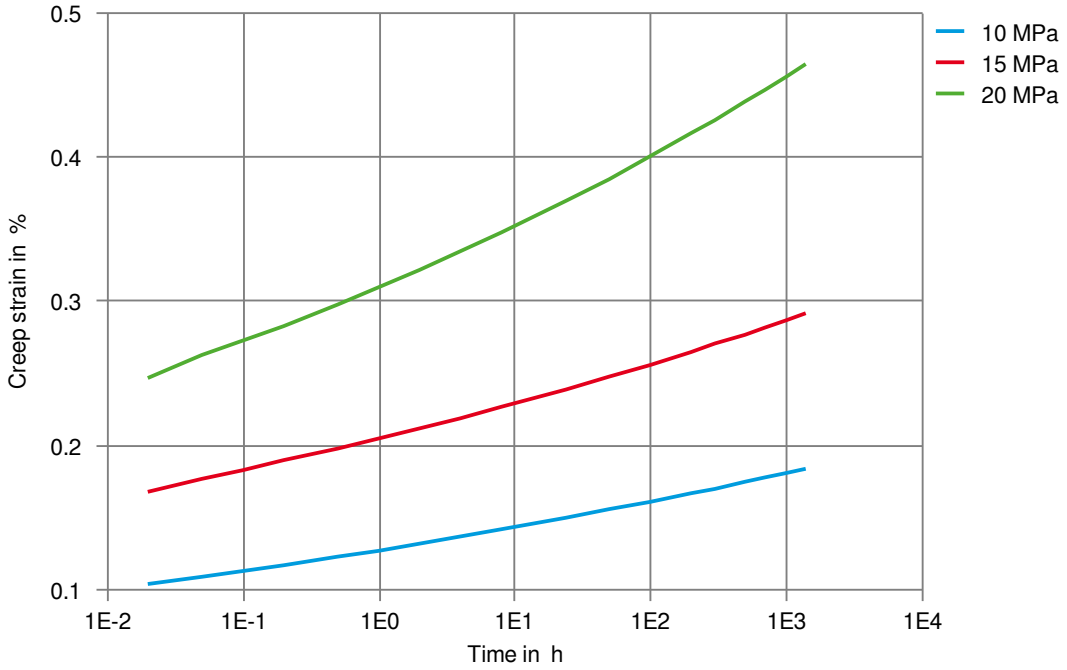
Creep strain-time 90 °C



Revised: 2025-01-24 Source: Celanese Materials Database