

HOSTAFORM® MR130ACS

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Hostaform® acetal copolymer grade MR130ACS is formulated with enhanced acid stabilization. Hostaform® MR130ACS demonstrates improved performance over standard acetals after intermittent exposure to acidic cleaners.

Product information

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

Rheological properties

Melt volume-flow rate	12 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	

Typical mechanical properties

Tensile modulus	2900 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	62 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	11 %	ISO 527-1/-2
Nominal strain at break	30 %	ISO 527-1/-2
Charpy impact strength, 23 °C	150 kJ/m ²	ISO 179/1eU
Charpy impact strength, -30 °C	140 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23 °C	8 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30 °C	6 kJ/m ²	ISO 179/1eA
Ball indentation hardness, H 358/30	137 MPa	ISO 2039-1
Poisson's ratio	0.37 ^[C]	

[C]: Calculated

Thermal properties

Melting temperature, 10 °C/min	170 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	100 °C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	94 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	100 E-6/K	ISO 11359-1/-2

Physical/Other properties

Humidity absorption, 2mm	0.3 %	Sim. to ISO 62
Water absorption, 2mm	1.7 %	Sim. to ISO 62
Density	1410 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	200 °C
Min. melt temperature	190 °C
Max. melt temperature	210 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	100 °C

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Min. mould temperature	80 °C
Max. mould temperature	120 °C
Hold pressure range	60 - 120 MPa
Back pressure	4 MPa

Characteristics

Processing	Injection Moulding
Delivery form	Pellets
Additives	Release agent
Special characteristics	Chemical resistant

Additional information

Processing Notes

Pre-Drying

Pre-drying is recommended.

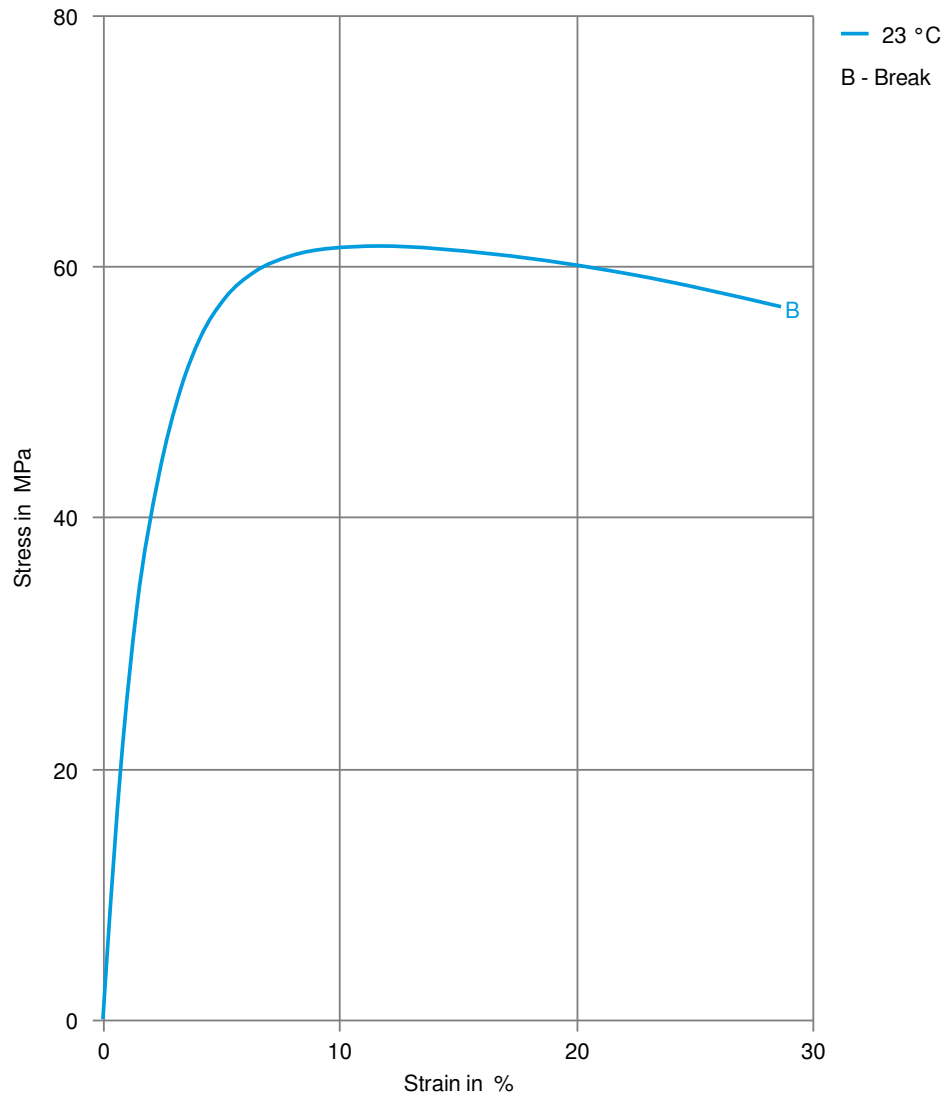
Storage

Standard drying conditions are 82 deg C (180 deg F) for 3 hours.

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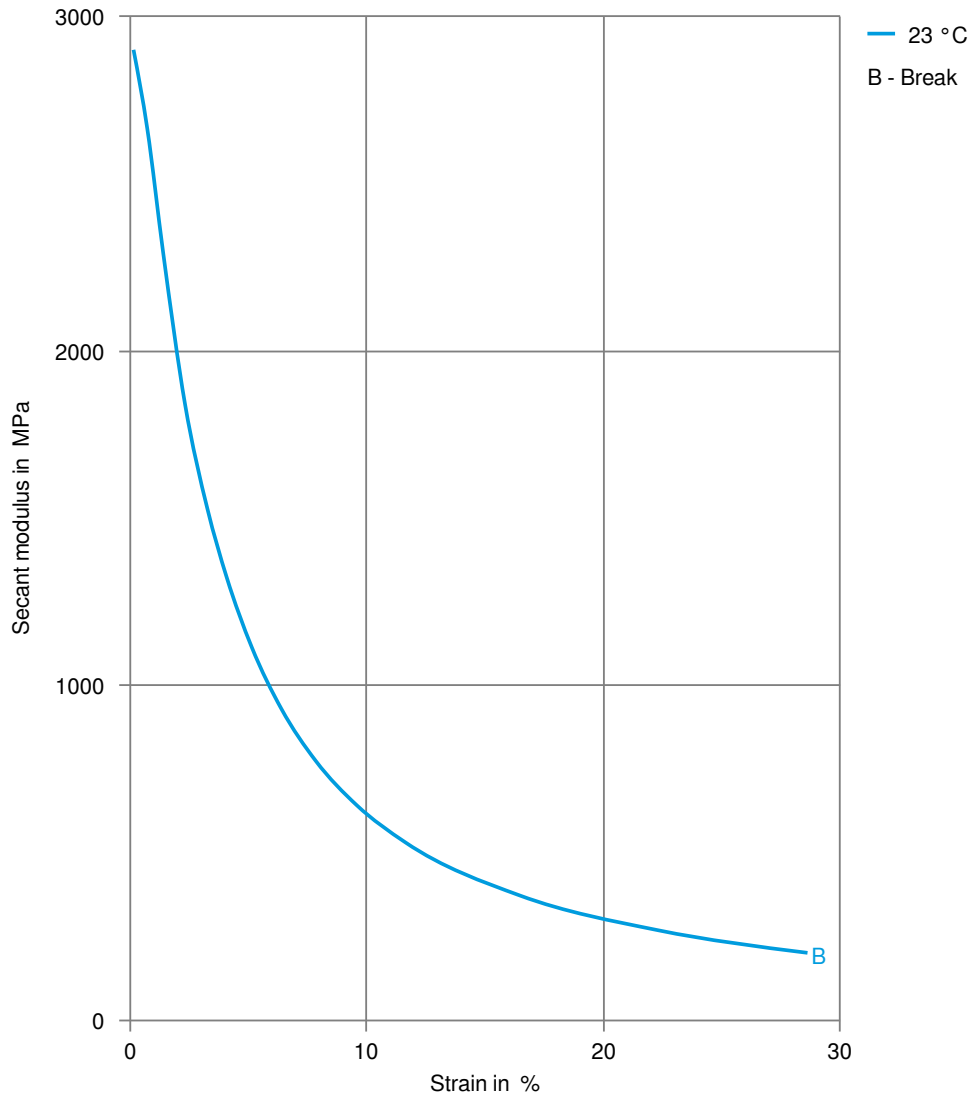
Stress-strain



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Secant modulus-strain



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