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The chemistry inside innovation™

HOSTAFORM® LX90Z ECO-B

HOSTAFORM®

Hostaform® LX90Z specialty metallic appearance grades are an integrally colored nominal 9 melt flow rate based acetal copolymer material stabilized for use where ultraviolet radiation exposure is to be encountered. The material is formulated to prevent discoloration, fading, chalking and mechanical property change in severe ultraviolet exposure. This product, formerly called Celcon® UV90Z metallics, is available in many molded-in-color metallic colors formulated for the interior automotive market and other applications. Besides material, optimal finish for specialty metallic parts is dependent on proper drying, gate design, knit line locations, and special processing. Please contact Celanese Technical Service for assistance with your application.
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

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

Rheological properties

Moulding shrinkage, parallel	2.3	%	ISO 294-4, 2577
Moulding shrinkage, normal	1.4	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	2800	MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	54	MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	10	%	ISO 527-1/-2
Flexural modulus	2850	MPa	ISO 178
Flexural stress at 3.5%	67	MPa	ISO 178
Charpy notched impact strength, 23°C	4	kJ/m²	ISO 179/1eA
Charpy notched impact strength, -30°C	4	kJ/m²	ISO 179/1eA
Izod notched impact strength, 23°C	5	kJ/m²	ISO 180/1A
Izod notched impact strength, -40°C	4.0	kJ/m²	ISO 180/1A
Poisson's ratio	0.37[C]		

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	165	°C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	88	°C	ISO 75-1/-2
Temperature of deflection under load, 0.45 MPa	151	°C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	90	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	0.2	%	Sim. to ISO 62
Water absorption, 2mm	0.75	%	Sim. to ISO 62
Density	1430	kg/m³	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	190	°C
Min. melt temperature	180	°C
Max. melt temperature	195	°C
Screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	110	°C
Min. mould temperature	100	°C
Max. mould temperature	125	°C
Hold pressure range	60 - 120	MPa
Back pressure	4	MPa

Characteristics

Processing	Injection Moulding, Extrusion
Delivery form	Pellets
Additives	Release agent
Special characteristics	Light stabilised or stable to light, U.V. stabilised or stable to weather, Specialty appearance
Sustainability	Bio-Content

Additional information

Processing Notes

Pre-Drying

Drying is required for this material to prevent poor appearance and performance of the part.

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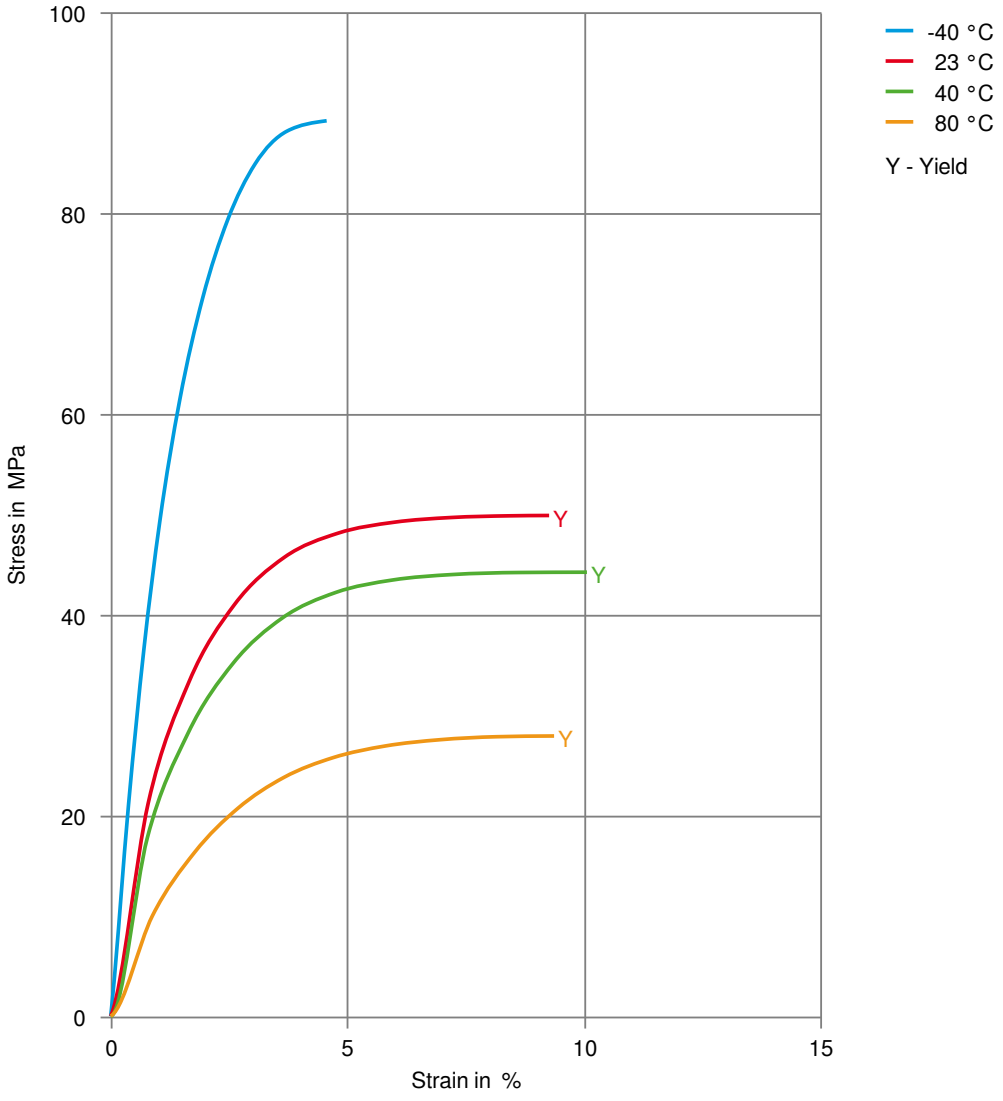
Stress-strain



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Secant modulus-strain