

HOSTAFORM® LX90Z - POM

Description

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.

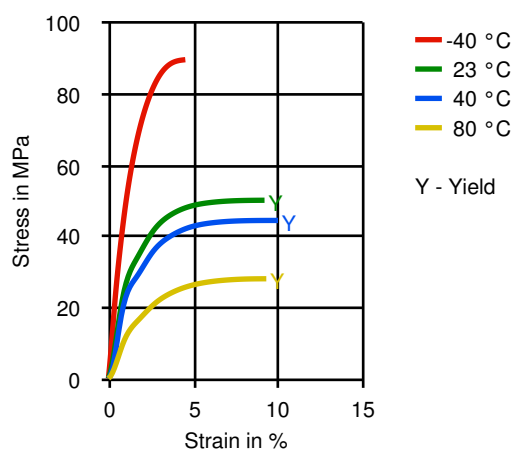
Physical properties	Value	Unit	Test Standard
Density	1430	kg/m ³	ISO 1183
Molding shrinkage, parallel	2,3	%	ISO 294-4, 2577
Molding shrinkage, normal	1,4	%	ISO 294-4, 2577
Water absorption, 23°C-sat	0,75	%	ISO 62
Humidity absorption, 23°C/50%RH	0,2	%	ISO 62

Mechanical properties	Value	Unit	Test Standard
Tensile modulus	2800	MPa	ISO 527-2/1A
Tensile stress at yield, 50mm/min	54	MPa	ISO 527-2/1A
Tensile strain at yield, 50mm/min	10	%	ISO 527-2/1A
Flexural modulus, 23°C	2850	MPa	ISO 178
Flexural stress at 3.5% strain	67	MPa	ISO 178
Charpy notched impact strength, 23°C	4	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	4	kJ/m ²	ISO 179/1eA
Izod impact notched, 23°C	5	kJ/m ²	ISO 180/1A
Izod impact notched, -40°C	4	kJ/m ²	ISO 180/1A

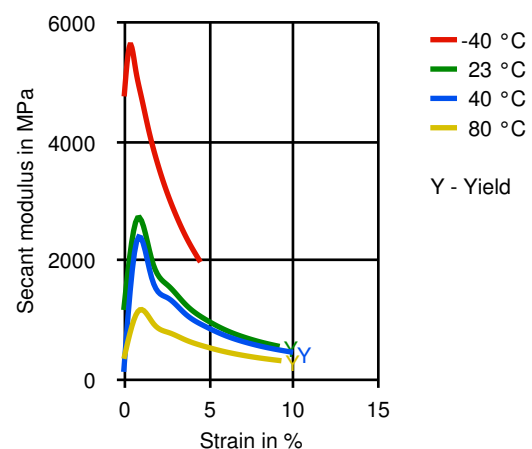
Thermal properties	Value	Unit	Test Standard
Melting temperature, 10°C/min	166	°C	ISO 11357-1/-3
DTUL at 1.8 MPa	88	°C	ISO 75-1, -2
DTUL at 0.45 MPa	151	°C	ISO 75-1, -2
Coeff. of linear therm expansion, parallel	0,9	E-4/°C	ISO 11359-2
Coeff. of linear therm expansion, normal	1	E-4/°C	ISO 11359-2

Diagrams

Stress-strain



Secant modulus-strain



Typical injection moulding processing conditions

Pre Drying	Value	Unit	Test Standard
Drying time	3 - 4	h	-
Drying temperature	100 - 120	°C	-

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Temperature	Value	Unit	Test Standard
Zone1 temperature	170 - 175	°C	-
Zone2 temperature	170 - 180	°C	-
Zone3 temperature	175 - 185	°C	-
Zone4 temperature	180 - 190	°C	-
Nozzle temperature	185 - 195	°C	-
Melt temperature	180 - 195	°C	-
Mold temperature	100 - 125	°C	-
Hot runner temperature	180 - 200	°C	-
Pressure	Value	Unit	Test Standard
Back pressure max.	40	bar	-
Speed	Value	Unit	Test Standard
Injection speed	slow	-	-

Other text information

Pre-drying

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

Characteristics

Special Characteristics

Light stabilized, UV resistant

Delivery Form

Pellets

Processing

Injection molding

Additives

Release agent

Contact Information

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General Disclaimer

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