



Hostaform® LX90Z

Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information

Product 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.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• UV Stabilizer		
Features	• Good Surface Finish	• UV Resistant	• UV Stabilized
Uses	• Automotive Applications	• Automotive Interior Parts	
RoHS Compliance	• Contact Manufacturer		
Appearance	• Metallized - Colors		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.00	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.4	%	
Flow	2.3	%	
Water Absorption (Saturation, 73°F)	0.75	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	406000	psi	ISO 527-2/1A
Tensile Stress (Yield)	7830	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	413000	psi	ISO 178
Flexural Stress (3.5% Strain)	9720	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.9	ft·lb/in ²	
73°F	1.9	ft·lb/in ²	
Notched Izod Impact Strength			ISO 180/1A
-40°F	1.9	ft·lb/in ²	
73°F	2.4	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	304	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	190	°F	ISO 75-2/A
Melting Temperature ²	331	°F	ISO 11357-3
Melting Temperature	329	°F	

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Thermal	Nominal Value	Unit	Test Method
CLTE - Flow	5.0E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	5.6E-5	in/in/°F	ISO 11359-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	212 to 248	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	338 to 347	°F
Middle Temperature	338 to 356	°F
Front Temperature	347 to 365	°F
Nozzle Temperature	365 to 383	°F
Processing (Melt) Temp	356 to 383	°F
Mold Temperature	212 to 257	°F
Injection Rate	Slow	
Back Pressure	< 580	psi

Injection Notes

Zone4 temperature: 180 to 190°C
Hot runner temperature: 180 to 200°C

Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min