



Hostaform® LW90BSX

Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information

Product Description

Hostaform® LW90BSX is a specialty low wear grade of acetal copolymer designed for a wide range of tribological applications, including POM/POM pairings. This grade's low wear system includes silicone oil.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Silicone Oil		
Features	• Lubricated	• Wear Resistant	
RoHS Compliance	• Contact Manufacturer		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	7.00	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	341000	psi	ISO 527-2/1A
Tensile Stress (Yield)	7400	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	15	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	35	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	326000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.6	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	36	ft-lb/in ²	
73°F	40	ft-lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness ²	17400	psi	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	194	°F	ISO 75-2/A
Melting Temperature ³	331	°F	ISO 11357-3

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	212 to 248	°F
Drying Time	3.0 to 4.0	hr
Suggested Max Moisture	0.15	%
Hopper Temperature	68 to 86	°F
Rear Temperature	338 to 356	°F
Middle Temperature	356 to 374	°F
Front Temperature	374 to 392	°F
Nozzle Temperature	374 to 410	°F
Processing (Melt) Temp	374 to 410	°F

Hostaform® LW90BSX

Celanese Corporation - Acetal (POM) Copolymer

Injection	Nominal Value	Unit
Mold Temperature	176 to 248	°F
Injection Rate	Slow	
Back Pressure	< 580	psi

Injection Notes

Feeding zone temperature: 60 to 80°C

Zone4 temperature: 190 to 210°C

Hot runner temperature: 190 to 210°C

Notes

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

² 30s

³ 10°C/min