

Hostaform® LW90BSX

Acetal (POM) Copolymer

Celanese Corporation

Message:

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 Information			
Additive	Silicone lubricant		
Features	Good wear resistance		
	Lubrication		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	7.00	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2350	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	51.0	MPa	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 (23°C)	2250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	75	kJ/m²	ISO 179/1eU
23°C	85	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	90.0	°C	ISO 75-2/A
Melting Temperature ¹	166	°C	ISO 11357-3
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	3.0 - 4.0	hr	
Hopper Temperature	20.0 - 30.0	°C	
Rear Temperature	170 - 180	°C	
Middle Temperature	180 - 190	°C	
Front Temperature	190 - 200	°C	
Nozzle Temperature	190 - 210	°C	
Processing (Melt) Temp	190 - 210	°C	

Mold Temperature	80.0 - 120	°C
Injection Pressure	60.0 - 120	MPa
Injection Rate	Slow	
Holding Pressure	60.0 - 120	MPa
Back Pressure	0.00 - 0.500	MPa

Injection instructions

Manifold Temperature: 190 to 210°CZone 4 Temperature: 190 to 210°CFeed Temperature: 60 to 80°C

NOTE

1.
- 10°C/min

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