



Hostaform® AM90S

Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information

Product Description

Hostaform® acetal copolymer grade AM90S is a standard melt flow acetal copolymer grade containing an antimicrobial ingredient. Hostaform® AM90S provides the same physical and mechanical performance of standard Hostaform and Celcon acetal copolymer grades plus the added benefit of inhibiting bacterial growth.

Preliminary Data Sheet

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • Latin America • North America
Additive	• Antimicrobial (Fungicide)
Features	• Microbe Resistant
RoHS Compliance	• Contact Manufacturer

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.41	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	2.3	%	
Flow	2.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	399000	psi	ISO 527-2/1A/1
Tensile Stress (Yield)	9430	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	384000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	2.6	ft·lb/in ²	
73°F	2.9	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	208	°F	ISO 75-2/A
Melting Temperature ²	333	°F	ISO 11357-3
CLTE - Flow	6.1E-5	in/in/°F	ISO 11359-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176 to 212	°F
Drying Time	3.0	hr
Rear Temperature	338 to 356	°F
Middle Temperature	356 to 374	°F
Front Temperature	356 to 374	°F
Nozzle Temperature	374 to 392	°F
Processing (Melt) Temp	356 to 392	°F

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Injection	Nominal Value	Unit
Mold Temperature	176 to 248	°F
Injection Pressure	8700 to 17400	psi
Injection Rate	Slow-Moderate	
Holding Pressure	8700 to 17400	psi
Back Pressure	0.00 to 580	psi

Injection Notes

Manifold Temperature: 180 to 200°C

Zone 4 Temperature: 190 to 200°C

Notes

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

² 10°C/min