

Hostaform® AM90S Plus

Acetal (POM) Copolymer

Celanese Corporation

Message:

Hostaform® acetal copolymer grade AM90S Plus is a standard melt viscosity acetal copolymer based material containing an antimicrobial ingredient. AM90S Plus reaches maximum efficacy more rapidly than standard AM90S. Hostaform® AM90SPlus 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 Information			
Additive	Antibacterial (fungicide)		
Features	Antimicrobial		
RoHS Compliance	Contact manufacturer		
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
Vertical flow direction	2.2	%	ISO 294-4
Flow direction	2.6	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2750	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	65.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50
Flexural Modulus (23°C)	2650	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.5	kJ/m ²	ISO 179/1eA
23°C	5.5	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/A
Melting Temperature ¹	167	°C	ISO 11357-3
CLTE - Flow	1.1E-4	cm/cm/°C	ISO 11359-2
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 100	°C	
Drying Time	3.0	hr	
Rear Temperature	170 - 180	°C	
Middle Temperature	180 - 190	°C	
Front Temperature	180 - 190	°C	
Nozzle Temperature	190 - 200	°C	
Processing (Melt) Temp	180 - 200	°C	

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

Injection instructions

Manifold Temperature: 180 to 200°CZone 4 Temperature: 190 to 200°C

NOTE

1. 10°C/min

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