

Hostaform® LG450UV-D

Acetal (POM) Copolymer

Celanese Corporation

Message:

Hostaform® acetal copolymer grade LG450UV-D is a specialty grade of acetal copolymer formulated to provide high flow with a reduced gloss finish and a UV stability necessary for interior automotive applications. Hostaform® LG450UV-D is specially suited for intricate applications such as speaker grills.

General Information			
Additive	UV stabilizer		
Features	Gloss, low		
	Good UV resistance		
	High liquidity		
Uses	Application in Automobile Field		
	Car interior parts		
RoHS Compliance	Contact manufacturer		
Physical	Nominal Value	Unit	Test Method
Density	1.38	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	32.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.9	%	ISO 294-4
Flow direction	2.1	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	53.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	8.0	%	ISO 527-2/1A/50
Flexural Modulus (23°C)	2300	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.5	kJ/m ²	ISO 179/1eA
23°C	4.0	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	152	°C	ISO 75-2/B
1.8 MPa, not annealed	90.0	°C	ISO 75-2/A
Melting Temperature ¹	167	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	1.1E-4	cm/cm/°C	ISO 11359-2
Lateral	1.2E-4	cm/cm/°C	ISO 11359-2

Injection	Nominal Value	Unit
Drying Temperature	105 - 110	°C
Drying Time	3.0	hr
Rear Temperature	170 - 175	°C
Middle Temperature	170 - 180	°C
Front Temperature	175 - 185	°C
Nozzle Temperature	185 - 195	°C
Processing (Melt) Temp	180 - 195	°C
Mold Temperature	80.0 - 105	°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

Zone 4 Temperature: 180 to 190°C

NOTE

1. 10°C/min

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