



Hostaform® WR140LG

Celanese Corporation - Acetal (POM) Copolymer

Sunday, November 3, 2019

General Information

Product Description

Hostaform® acetal copolymer grade WR140LG Black is a specialty weatherable grade of acetal copolymer formulated to provide good flow with a low gloss finish and a UV stability necessary for exterior automotive applications.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Flow • Good Weather Resistance	• Low Gloss • UV Resistant	
Uses	• Automotive Applications	• Automotive Exterior Parts	
RoHS Compliance	• Contact Manufacturer		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	13	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.6	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	261000	psi	ISO 527-2/1A
Tensile Stress (Yield)	5950	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	268000	psi	ISO 178
Flexural Stress (3.5% Strain)	7250	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.7	ft·lb/in ²	
73°F	1.7	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	176	°F	ISO 75-2/A
Melting Temperature ²	329	°F	ISO 11357-3
CLTE - Flow	7.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	7.2E-5	in/in/°F	ISO 11359-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	212 to 248	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	338 to 347	°F
Middle Temperature	338 to 356	°F
Front Temperature	347 to 365	°F
Nozzle Temperature	365 to 383	°F

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Injection	Nominal Value	Unit
Processing (Melt) Temp	356 to 383	°F
Mold Temperature	176 to 221	°F
Injection Rate	Slow	
Back Pressure	< 580	psi

Injection Notes

Zone4 temperature: 180 to 190°C
Hot runner temperature: 180 to 200°C

Notes

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

² 10°C/min