Celcon® UV140LG

Celanese Corporation - Acetal (POM) Copolymer

Sunday, November 3, 2019

General Information

Product Description

Celcon® acetal copolymer grade UV140LG is a specialty grade of acetal copolymer formulated to provide good flow with a low gloss finish and a UV stability necessary for interior automotive applications.

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

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	15	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	13	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.6	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	283000	psi	ISO 527-2/1A
Tensile Stress (Yield)	5950	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	11	%	ISO 527-2/1A/50
Tensile Creep Modulus (1 hr)	189000	psi	ISO 899-1
Tensile Creep Modulus (1000 hr)	94300	psi	ISO 899-1
Flexural Modulus (73°F)	276000	psi	ISO 178
Flexural Stress (3.5% Strain)	7250	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	1.5	ft·lb/in²	ISO 179/1eA
Notched Izod Impact Strength (73°F)	1.9	ft·lb/in²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (66 psi, Unannealed)	280	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	176	°F	ISO 75-2/A
Vicat Softening Temperature	322	°F	ISO 306/B50
Melting Temperature [2]	329	°F	ISO 11357-3
Melting Temperature	333	°F	
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

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Injection	Nominal Value	Unit
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
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