

Celcon® UV140LG

Acetal (POM) Copolymer
Celanese Corporation

Message:

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 Information			
Additive	UV stabilizer		
Features	Gloss, low		
	Good liquidity		
Uses	Application in Automobile Field		
	Car interior parts		
RoHS Compliance	Contact manufacturer		
Appearance	Available colors		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
Physical	Nominal Value	Unit	Test Method
Density	1.33	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	13.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Vertical flow direction	1.5	%	ISO 294-4
Flow direction	1.6	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1950	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	41.0	MPa	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			ISO 899-1
1 hr	1300	MPa	ISO 899-1
1000 hr	650	MPa	ISO 899-1
Flexural Modulus (23°C)	1900	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	3.1	kJ/m ²	ISO 179/1eA
Notched Izod Impact (23°C)	4.0	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	138	°C	ISO 75-2/B
1.8 MPa, not annealed	80.0	°C	ISO 75-2/A

Melting Temperature ¹	165	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	1.3E-4	cm/cm/°C	ISO 11359-2
Lateral	1.3E-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			
Manifold Temperature: 180 to 200°CZone 4 Temperature: 180 to 190°C			
NOTE			
1.	10°C/min		

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