

Celcon® UV90Z

Acetal (POM) Copolymer

Celanese Corporation

Message:

Celcon® UV90Z is an integrally colored nominal 9 melt flow rate based acetal copolymer material stabilized for use where ultraviolet radiation exposure is to be encountered. The material is formulated to prevent discoloration, fading, chalking and mechanical property change in severe ultraviolet exposure. This product is available in many colors formulated for the interior automotive market and other applications.

General Information			
UL YellowCard	E38860-239318		
Additive	UV stabilizer		
Features	Good UV resistance		
	General		
Uses	Application in Automobile Field		
	Car interior parts		
	Outdoor application		
RoHS Compliance	Contact manufacturer		
Appearance	Available colors		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792, ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.00	cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow	2.2	%	ASTM D955
Transverse flow	1.8	%	ASTM D955
Vertical flow direction	1.7	%	ISO 294-4
Flow direction	1.9	%	ISO 294-4
Water Absorption			
Saturated, 23°C	0.75	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2700	MPa	ISO 527-2/1A/1
Tensile Strength			
Yield, 23°C	60.7	MPa	ASTM D638
Yield	64.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	9.0	%	ISO 527-2/1A/50
Flexural Modulus (23°C)	2470	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	6.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	100	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	5.7	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	155	°C	ISO 75-2/B
1.8 MPa, not annealed	110	°C	ASTM D648
1.8 MPa, not annealed	91.0	°C	ISO 75-2/A
Melting Temperature ¹	165	°C	ISO 11357-3, ASTM D3418
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	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 190°C Zone 4 Temperature: 190 to 200°C			
NOTE			
1.	10°C/min		

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