



Celcon® GC90UV

Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information

Product Description

Celcon® acetal copolymer grade GC90UV is a specialty grade combining glass coupling for improved strength and stiffness and UV stabilization for improved performance in exposure to artificial lighting and sunlight.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Additive	• UV Stabilizer		
Features	• Chemically Coupled • Good Stiffness	• Good Strength • UV Stabilized	
RoHS Compliance	• Contact Manufacturer		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	605000	psi	ISO 527-2/1A
Tensile Stress (Break)	8560	psi	ISO 527-2/1A/5
Tensile Strain (Break)	9.0	%	ISO 527-2/1A/5
Flexural Modulus (73°F)	550000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.8	ft-lb/in ²	ISO 179/1eA
Notched Izod Impact Strength (73°F)	2.1	ft-lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	286	°F	ISO 75-2/A
Vicat Softening Temperature	322	°F	ISO 306/B50
Melting Temperature ²	333	°F	ISO 11357-3

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	212 to 248	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	338 to 356	°F
Middle Temperature	356 to 374	°F
Front Temperature	356 to 374	°F
Nozzle Temperature	374 to 392	°F
Processing (Melt) Temp	356 to 392	°F
Mold Temperature	194 to 248	°F
Injection Rate	Slow	
Back Pressure	< 290	psi

Injection Notes

Zone4 temperature: 190 to 200°C

Hot runner temperature: 190 to 210°C

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Notes

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

² 10°C/min
