

# Celcon® LW90-S2

## Celanese Corporation - Acetal (POM) Copolymer

Saturday, November 2, 2019

General Information					
Product Description					
Celcon® LW90-S2 is a preblended low wear formulation of M90 base polymer containing 2% silicone. This standard low friction, low wear product performs well in many applications including those involving intermittent motion.					
General					
Material Status	Commercial: Active				
Availability	Africa & Middle East	• Europe	North America		
	<ul> <li>Asia Pacific</li> </ul>	<ul> <li>Latin America</li> </ul>			
Additive	Silicone Lubricant: 2%				
Features	Low Friction	<ul> <li>Lubricated</li> </ul>	Wear Resistant		
RoHS Compliance	Contact Manufacturer				

ASTM & ISO Properties <sup>1</sup>				
Physical	Nominal Value	Unit	Test Method	
Density	1.38	g/cm³	ISO 1183	
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	8.40	cm <sup>3</sup> /10min	ISO 1133	
Molding Shrinkage			ISO 294-4	
Across Flow	1.6	%		
Flow	1.9	%		
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	363000	psi	ISO 527-2/1A	
Tensile Stress (Yield)	8120	psi	ISO 527-2/1A/50	
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50	
Flexural Modulus (73°F)	348000	psi	ISO 178	
Impact	Nominal Value	Unit	Test Method	
Charpy Notched Impact Strength			ISO 179/1eA	
-22°F	2.1	ft·lb/in²		
73°F	3.3	ft·lb/in²		
Notched Izod Impact Strength (73°F)	2.5	ft·lb/in²	ISO 180/1A	
Thermal	Nominal Value	Unit	Test Method	
Heat Deflection Temperature (264 psi, Unannealed)	201	°F	ISO 75-2/A	
Vicat Softening Temperature	322	°F	ISO 306/B50	
Melting Temperature <sup>2</sup>	331	°F	ISO 11357-3	
Melting Temperature	331	°F		
CLTE - Flow	6.1E-5	in/in/°F	ISO 11359-2	
CLTE - Transverse	6.7E-5	in/in/°F	ISO 11359-2	

Processing Information			
Nominal Value Unit			
212 to 248 °F			
3.0 to 4.0 hr			
338 to 356 °F			
356 to 374 °F			
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Nominal Value Unit
374 to 392 °F
356 to 392 °F
176 to 248 °F
Slow-Moderate
< 580 psi

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

#### **Notes**

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>&</sup>lt;sup>2</sup> 10°C/min