

Celanese Hostaform[®] C 9021 LS 10/1570

Chemical abbreviation according to ISO 1043-1: POM
Information provided by Celanese

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	ISO 1183
Water Absorption at Saturation	0.65 %	0.65 %	ISO 62
Linear Mold Shrinkage, Flow	0.020 cm/cm	0.020 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ISO 294-4
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 190 °C	8.0 g/10 min @Load 4.76 lb, Temperature 374 °F	[cm ³ /10min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	64.0 MPa	9280 psi	50mm/min; ISO 527-2/1A
Elongation at Break	25 %	25 %	
Elongation at Yield	8.0 %	8.0 %	50mm/min; ISO 527-2/1A
Tensile Modulus	3.00 GPa	435 ksi	50mm/min; ISO 527-2/1A
Charpy Impact Unnotched	11.0 J/cm ²	52.3 ft-lb/in ²	ISO 179/1eU
	11.0 J/cm ² @Temperature -30.0 °C	52.3 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.650 J/cm ²	3.09 ft-lb/in ²	ISO 179/1eA
	0.600 J/cm ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA

Tensile Creep Modulus, 1 hour	2500 MPa	363000 psi	ISO 899-1
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Tensile Creep Modulus, 1000 hours	1400 MPa	203000 psi	ISO 899-1
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Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Strength	28.0 kV/mm	711 kV/in	IEC 60243-1
Comparative Tracking Index	300 V	300 V	IEC 60112

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	110 $\mu\text{m}/\text{m}\cdot^\circ\text{C}$	61.1 $\mu\text{in}/\text{in}\cdot^\circ\text{F}$	ISO 11359-2
Melting Point	167 $^\circ\text{C}$	333 $^\circ\text{F}$	10 $^\circ\text{C}/\text{min}$; ISO 11357-1,-2,-3
Deflection Temperature at 1.8 MPa (264 psi)	105 $^\circ\text{C}$	221 $^\circ\text{F}$	ISO 75-1,-2

Descriptive Properties	
Injection molding	Yes
Processing conditions acc. ISO	9988