

Celanese Hostaform® C 2521

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

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Density of Compound	1.20 g/cc	0.0434 lb/in ³	
Water Absorption at Saturation	0.65 %	0.65 %	ISO 62
Linear Mold Shrinkage, Flow	0.021 cm/cm	0.021 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ISO 294-4
Melt Flow	2.5 g/10 min @Load 2.16 kg, Temperature 190 °C	2.5 g/10 min @Load 4.76 lb, Temperature 374 °F	[cm ³ /10min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	62.0 MPa	8990 psi	50mm/min; ISO 527-2/1A
Elongation at Break	32 %	32 %	
Elongation at Yield	9.0 %	9.0 %	50mm/min; ISO 527-2/1A
Tensile Modulus	2.60 GPa	377 ksi	50mm/min; ISO 527-2/1A
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Charpy Impact Unnotched	22.0 J/cm ²	105 ft-lb/in ²	partial break; ISO 179/1eU
	20.0 J/cm ² @Temperature -30.0 °C	95.2 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	0.850 J/cm ²	4.04 ft-lb/in ²	ISO 179/1eA
	0.700 J/cm ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eA
Tensile Creep Modulus, 1 hour	2300 MPa	334000 psi	ISO 899-1
Tensile Creep Modulus, 1000 hours	1100 MPa	160000 psi	ISO 899-1

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 Constant	4.0 @Frequency 1e+6 Hz	4.0 @Frequency 1e+6 Hz	IEC 60250
	4.0 @Frequency 100 Hz	4.0 @Frequency 100 Hz	IEC 60250
Dielectric Strength	35.0 kV/mm	889 kV/in	IEC 60243-1
Dissipation Factor	0.0015 @Frequency 100 Hz	0.0015 @Frequency 100 Hz	IEC 60250
	0.0050 @Frequency 1e+6 Hz	0.0050 @Frequency 1e+6 Hz	IEC 60250
Comparative Tracking Index	600 V	600 V	IEC 60112