

Celanese Hostaform® S 9063 Elastomer Modified Acetal Copolymer

Categories: [Polymer](#); [Thermoplastic](#); [Acetal \(Polyoxymethylene, POM\)](#); [Acetal Copolymer, Impact Modified](#)

Material Notes: **Description:** Hostaform® Acetal Copolymers are a high strength, crystalline, thermoplastic engineering resins whose balance of properties and ease of processability offer performance and cost advantages over many other materials.



Specific Notes for this Grade: Injection molding grade, elastomer-modified. With higher impact strength and slightly reduced hardness and rigidity. For parts requiring increased impact energy absorption.

Information provided by Celanese Corporation.

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	10x10x4 mm from multi-purpose test specimen (ISO 3167); ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	80x80x1mm, at 23°C and 50% RH; ISO 62
Water Absorption at Saturation	0.65 %	0.65 %	80x80x1mm, 23°C; ISO 62
Melt Flow	11.12 g/10 min @Load 2.16 kg, Temperature 190 °C	11.12 g/10 min @Load 4.76 lb, Temperature 374 °F	Calculated from Volume flow Rate: 8 cm ³ /10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	110 MPa	16000 psi	30 sec value, 20x20x4 mm; ISO 2039, part 1; applied load 358 N
Tensile Strength, Yield	53.0 MPa	7690 psi	multi-purpose test specimen (ISO 3167); ISO 527, part 1/2; test speed 50 mm/min
Elongation at Break	32 %	32 %	multi-purpose specimen (ISO 3167); ISO 527, part 1/2; test speed 50 mm/min
Elongation at Yield	9.0 %	9.0 %	multi-purpose test specimen (ISO 3167); ISO 527, part 1/2; test speed 50 mm/min
Tensile Modulus	2.10 GPa	305 ksi	multi-purpose test specimen (ISO 3167); ISO 527, part 1/2; test speed 1 mm/min
Flexural Modulus	2.00 GPa	290 ksi	80x10x4mm from multi-purpose test specimen (ISO 3167); ISO 178
Charpy Impact Unnotched	22.0 J/cm ² @Temperature -30.0 °C	105 ft-lb/in ² @Temperature -22.0 °F	80x10x4 m from multi-purpose test specimen (ISO 3167); ISO 179 1eU
	25.0 J/cm ² @Thickness 4.00 mm, Temperature 23.0 °C	119 ft-lb/in ² @Thickness 0.157 in, Temperature 73.4 °F	80x10x4 m from multi-purpose test specimen (ISO 3167); ISO 179 1eU
Charpy Impact, Notched	0.700 J/cm ² @Temperature -30.0 °C	3.33 ft-lb/in ² @Temperature -22.0 °F	80x10x4 m from multi-purpose test specimen (ISO 3167); ISO 179 1eA
	1.20 J/cm ² @Thickness 4.00 mm, Temperature 23.0 °C	5.71 ft-lb/in ² @Thickness 0.157 in, Temperature 73.4 °F	80x10x4 m from multi-purpose test specimen (ISO 3167); ISO 179 1eA
Penetration	8.0	8.0	mm, deformation damage, 60x60x3mm; ISO 6603, part 2
	20	20	J, work to damage, 60x60x3 mm; ISO 6603, part 2
Tensile Creep Modulus, 1 hour	1800 MPa	261000 psi	multi-purpose test specimen (ISO 3167); ISO 899, part 1
Tensile Creep Modulus, 1000 hours	1000 MPa	145000 psi	multi-purpose test specimen (ISO 3167); ISO 899, part 1

Electrical Properties	Metric	English	Comments
Dielectric Constant 	4.2 @Frequency 100 Hz	4.2 @Frequency 100 Hz	80x80x1 mm; IEC 60250
	4.2 @Frequency 1e+6 Hz	4.2 @Frequency 1e+6 Hz	80x80x1 mm; IEC 60250
Dielectric Strength	28.0 kV/mm	711 kV/in	80x80x1 mm; IEC 60243, part 1
Dissipation Factor 	0.0050 @Frequency 100 Hz	0.0050 @Frequency 100 Hz	80x80x1 mm; IEC 60250
	0.015 @Frequency 1e+6 Hz	0.015 @Frequency 1e+6 Hz	80x80x1 mm; IEC 60250

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C @Temperature 23.0 - 55.0 °C	66.7 µin/in-°F @Temperature 73.4 - 131 °F	Longitudinal, 30x10x4 mm from multi-purpose test specimen (ISO 3167); ISO 11359, part 1/2
Melting Point	166 °C	331 °F	DSC, 10 K/min, Molding compound; ISO 3146, method C1b
Deflection Temperature at 1.8 MPa (264 psi)	82.0 °C	180 °F	80x10x4 mm from multi-purpose test specimen (ISO 3167); ISO 75, part 1/2
Vicat Softening Point	140 °C	284 °F	VST/B/50, 10x10x4 mm from multi-purpose test specimen (ISO 3167); ISO 306

Some of the values displayed above may have been converted from their original units and/or rounded in order to display the information in a consistent format. Users requiring more precise data for scientific or engineering calculations can click on the property value to see the original value as well as raw conversions to equivalent units. We advise that you only use the original value or one of its raw conversions in your calculations to minimize rounding error. We also ask that you refer to MatWeb's [terms of use](#) regarding this information. [Click here](#) to view all the property values for this datasheet as they were originally entered into MatWeb.

