

Celanese Hostaform® S 9362 POM, Impact Modified (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Impact Modified

Material Notes:

Hostaform® acetal copolymer grade S 9362 is an impact modified grade for applications requiring improved impact. Hostaform® S 9362 provides good impact strength while improving modulus and weld line strength over standard impact modified grades such as Impact modified, improved modulus and weld line. Information provided by Celanese

Order this product through the following link:

http://www.lookpolymers.com/polymer_Celanese-Hostaform-S-9362-POM-Impact-Modified-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183
Water Absorption	0.80 %	0.80 %	ISO 62
Linear Mold Shrinkage, Flow	0.019 cm/cm	0.019 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ISO 294-4
Melt Flow	6.5 g/10 min @Load 2.16 kg, Temperature 190 °C	6.5 g/10 min @Load 4.76 lb, Temperature 374 °F	(MVR) cm ³ /10min; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	50mm/min; ISO 527-2/1A
Elongation at Yield	10 %	10 %	50mm/min; ISO 527-2/1A
Tensile Modulus	2.30 GPa	334 ksi	1mm/min; ISO 527-2/1A
Flexural Modulus	2.20 GPa	319 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
	19.0 J/cm ² @Temperature -30.0 °C	90.4 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm ²	4.76 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

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-2
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-2

Thermal Properties	Metric	English	Comments
Melting Point	166 °C	331 °F	10 °C/min, ISO 11357-1,-2,-3
Deflection Temperature at 0.46 MPa (66 psi)	151 °C	304 °F	ISO 75-1, -2
Deflection Temperature at 1.8 MPa (264 psi)	87.0 °C	189 °F	ISO 75-1, -2

Processing Properties	Metric	English	Comments
Processing Temperature	80.0 - 120 °C	176 - 248 °F	Cavity temperature
	<= 205 °C	<= 401 °F	to avoid burning and discoloring product
Zone 1	170 - 180 °C	338 - 356 °F	
Zone 2	180 - 190 °C	356 - 374 °F	
Zone 3	180 - 190 °C	356 - 374 °F	
Zone 4	180 - 200 °C	356 - 392 °F	
Die Temperature	180 - 200 °C	356 - 392 °F	
Melt Temperature	180 - 200 °C	356 - 392 °F	
Drying Temperature	80.0 - 100 °C	176 - 212 °F	
Dry Time	3.00 hour	3.00 hour	
Injection Pressure	60.0 - 120 MPa	8700 - 17400 psi	
Hold Pressure	60.0 - 120 MPa	8700 - 17400 psi	
Back Pressure	0.500 MPa	72.5 psi	

Descriptive Properties	Value	Comments
Injection molding	Yes	
Injection Speed	slow	
Pre-drying	Drying is not normally required with proper storage	
Processing conditions	ISO 9988-2	
Profile extrusion	Yes	

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