Hostaform® S 9364

Celanese Corporation - Acetal (POM) Copolymer

Sunday, November 3, 2019

General Information

Product Description

Hostaform® acetal copolymer grade S 9364 is highly impact modified grade for demanding applications. Hostaform® S 9364 provides a significant improvement in impact strength and flexibility over standard impact modified grades such as Hostaform® S 9063 and S 9064.

Chemical abbreviation according to ISO 1043-1: POM-HI

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Impact Modifier		
Features	• Good Flexibility	• Good Impact Resistance	• Impact Modified
RoHS Compliance	• Contact Manufacturer		
Resin ID (ISO 1043)	• POM-HI		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	4.00	cm³/10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	1.5	%	
Flow	1.6	%	
Water Absorption (Saturation, 73°F)	0.80	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.25	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	239000	psi	ISO 527-2/1A
Tensile Stress (Yield)	6240	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	16	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	225000	psi	ISO 178
Flexural Stress (3.5% Strain)	6090	psi	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	5.2	ft·lb/in²	
73°F	10	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	No Break		
73°F	No Break		
Notched Izod Impact Strength			ISO 180/1A
-40°F	4.8	ft·lb/in²	
-22°F	5.7	ft·lb/in²	
73°F	9.5	ft·lb/in²	
Unnotched Izod Impact Strength			ISO 180/1U
-22°F	No Break		
73°F	No Break		

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Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D, 15 sec)	76		ISO 868

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (66 psi, Unannealed)	284	°F	ISO 75-2/B
Heat Deflection Temperature (264 psi, Unannealed)	167	°F	ISO 75-2/A
Vicat Softening Temperature	252	°F	ISO 306/B50
Melting Temperature [2]	331	°F	ISO 11357-3
Melting Temperature	329	°F	
CLTE - Flow	6.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	6.1E-5	in/in/°F	ISO 11359-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	212 to 248	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	338 to 356	°F
Middle Temperature	356 to 374	°F
Front Temperature	356 to 374	°F
Nozzle Temperature	356 to 392	°F
Processing (Melt) Temp	356 to 392	°F
Mold Temperature	140 to 158	°F
Injection Rate	Slow	
Back Pressure	< 290	psi

Injection Notes

Zone4 temperature: 180 to 200°C

No flow temperature: 165°C

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 10°C/min