



Hostaform® MT2U06

Celanese Corporation - Acetal (POM) Copolymer

Sunday, November 3, 2019

General Information

Product Description

Hostaform® acetal copolymer grade MT2U06 is a high molecular weight and low flow grade primarily used for extrusion and select injection molding. Hostaform® MT2U06 is a special grade developed for medical industry applications and in accordance to GMP principles. US FDA Device Master file listing is available for all colors and certified biocompatibility data (USP Class VI and ISO 10993) are available for select colors.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Biocompatible	• High Molecular Weight	• Low Flow
Uses	• Medical/Healthcare Applications		
Agency Ratings	• ISO 10993	• USP Class VI	
Appearance	• Colors Available		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	2.10	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Across Flow	2.0	%	
Flow	3.2	%	
Water Absorption (Saturation, 73°F)	0.40	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	357000	psi	ISO 527-2/1A
Tensile Stress (Yield)	8700	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	11	%	ISO 527-2/1A/50
Flexural Modulus (73°F)	348000	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	2.6	ft-lb/in ²	
73°F	3.3	ft-lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	100	ft-lb/in ²	
73°F	100	ft-lb/in ²	
Notched Izod Impact Strength (73°F)	3.3	ft-lb/in ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (264 psi, Unannealed)	196	°F	ISO 75-2/A
Melting Temperature ²	331	°F	ISO 11357-3
CLTE - Flow	7.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse	6.7E-5	in/in/°F	ISO 11359-2

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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	374 to 392	°F
Processing (Melt) Temp	356 to 392	°F
Mold Temperature	176 to 248	°F
Injection Rate	Slow	
Back Pressure	< 580	psi

Injection Notes

Zone4 temperature: 190 to 200°C
Hot runner temperature: 180 to 200°C
Flow temperature: 174°C
No flow temperature: 160°C

Notes

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

² 10°C/min