HOSTAFORM® MT®2U06

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Hostaform® acetal copolymer grade MT®2U06 is a high molecular weight and low flow grade primarily used for extrusion and select injection molding. Hostaform® MT®2U06 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.

Product information

Resin Identification	POM		ISO 1043
Part Marking Code	>POM<		ISO 11469

Rheological properties

Melt volume-flow rate	2.1	cm^3/10min	ISO 1133
Temperature	374	°F	
Load	4.76	lb	
Molding shrinkage, parallel	3.2[1]	%	ISO 294-4, 2577
Molding shrinkage, normal	2.0[1]	%	ISO 294-4, 2577

[1]: @ 60 MPa

Typical mechanical properties

Tensile modulus	357000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	8700	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	11	%	ISO 527-1/-2
Flexural modulus	348000	psi	ISO 178
Charpy impact strength, 23°C	102	$ftlb/in^2$	ISO 179/1eU
Charpy impact strength, -30°C	99.9	$ftlb/in^2$	ISO 179/1eU
Charpy notched impact strength, 23°C	3.33	$ftlb/in^2$	ISO 179/1eA
Charpy notched impact strength, -30°C	2.57	$ftlb/in^2$	ISO 179/1eA
Izod notched impact strength, 23°C	3.33	$ftlb/in^2$	ISO 180/1A

Thermal properties

Melting temperature, 10°C/min	331	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	196	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.72	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.667	E-4/°F	ISO 11359-1/-2

Physical/Other properties

Water absorption, 2mm	0.4	%	Sim. to ISO 62
Density	0.0509	lb/in^3	ISO 1183

Injection

Drying Recommended	no	
Drying Temperature	212	°F
Drying Time, Dehumidified Dryer	3 - 4	h
Processing Moisture Content	≤0.2	%
Melt Temperature Optimum	374	°F
Min. melt temperature	356	°F
Max. melt temperature	392	°F

Revised: 2025-07-10 Source: Celanese Materials Database

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Max. screw tangential speed	≤0.3	m/s
Mold Temperature Optimum	212	°F
Min. mold temperature	176	°F
Max. mold temperature	248	°F
Hold pressure range	8700 - 17400	psi
Hold Pressure Time (h is the max. wall thickness of the part in mm)	$2h^2$-3	s
Back pressure	580	psi

Characteristics

Processing	Injection Molding, Extrusion, Sheet Extrusion
Special characteristics	High viscosity

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