HOSTAFORM® MT®2U01

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Hostaform® acetal copolymer grade MT®2U01 is a special grade developed for medical industry applications containing low residual monomers and no animal products. Hostaform® MT®2U01 is a low melt flow injection molding and extrusion grade designed for good processing along with optimum properties including improved toughness in demanding applications.

Product information

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

Rheological properties

Melt volume-flow rate	2.5	cm^3/10min	ISO 1133
Temperature	374	°F	
Load	4.76	lb	
Molding shrinkage, parallel	2.1	%	ISO 294-4, 2577
Molding shrinkage, normal	1.8	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	377000	psi	ISO 527-1/-2
Tensile stress at yield, 50mm/min	9000	psi	ISO 527-1/-2
Tensile strain at yield, 50mm/min	9	%	ISO 527-1/-2
Nominal strain at break	32	%	ISO 527-1/-2
Flexural modulus	363000	psi	ISO 178
Tensile creep modulus, 1h	334000	psi	ISO 899-1
Tensile creep modulus, 1000h	160000	psi	ISO 899-1
Charpy impact strength, 23°C	119[P]	$ftlb/in^2$	ISO 179/1eU
Charpy impact strength, -30°C	119	$ftlb/in^2$	ISO 179/1eU
Charpy notched impact strength, 23°C	4.04	$ftlb/in^2$	ISO 179/1eA
Charpy notched impact strength, -30°C	3.33	$ftlb/in^2$	ISO 179/1eA

[P]: Partial Break

Thermal properties

Melting temperature, 10°C/min	329	°F	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	214	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.61	E-4/°F	ISO 11359-1/-2

Physical/Other properties

Humidity absorption, 2mm	0.2	%	Sim. to ISO 62
Water absorption, 2mm	0.65	%	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

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

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Max. melt temperature	392	°F
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
Additives	Release agent
Special characteristics	High viscosity

Additional information

Processing Notes

Pre-Drying

Drying is not normally required. If material has come in contact with moisture through improper storage or handling, drying may be necessary to prevent splay and odor problems.

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