

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	190 °C	
Load	2.16 kg	
Moulding shrinkage, parallel	3.2 ^[1] %	ISO 294-4, 2577
Moulding shrinkage, normal	2.0 ^[1] %	ISO 294-4, 2577

[1]: @ 60 MPa

Typical mechanical properties

Tensile modulus	2460 MPa	ISO 527-1/-2
Tensile stress at yield, 50mm/min	60 MPa	ISO 527-1/-2
Tensile strain at yield, 50mm/min	11 %	ISO 527-1/-2
Flexural modulus	2400 MPa	ISO 178
Charpy impact strength, 23°C	215 kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	210 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	7 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	5.4 kJ/m ²	ISO 179/1eA
Izod notched impact strength, 23°C	7 kJ/m ²	ISO 180/1A
Poisson's ratio	0.38 ^[C]	

[C]: Calculated

Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temperature of deflection under load, 1.8 MPa	91 °C	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	130 E-6/K	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	120 E-6/K	ISO 11359-1/-2

Physical/Other properties

Water absorption, 2mm	0.4 %	Sim. to ISO 62
Density	1410 kg/m ³	ISO 1183

Injection

Drying Recommended	no
Drying Temperature	100 °C
Drying Time, Dehumidified Dryer	3 - 4 h
Processing Moisture Content	≤0.2 %
Melt Temperature Optimum	190 °C

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Min. melt temperature	180 °C
Max. melt temperature	200 °C
Screw tangential speed	≤0.3 m/s
Mold Temperature Optimum	100 °C
Min. mould temperature	80 °C
Max. mould temperature	120 °C
Hold pressure range	60 - 120 MPa
Back pressure	4 MPa

Characteristics

Processing	Injection Moulding, Extrusion, Sheet Extrusion
Delivery form	Pellets