

HOSTAFORM® MT®2U06

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.

Rheological properties

Melt volume-flow rate	2.1 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage range, parallel	3.2 %	ISO 294-4, 2577
Moulding shrinkage range, normal	2.0 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	2460 MPa	ISO 527-1/-2
Yield stress, 50mm/min	60 MPa	ISO 527-1/-2
Yield strain, 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

Thermal properties

Melting temperature, 10°C/min	166 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	91 °C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	130 E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	120 E-6/K	ISO 11359-1/-2

Other properties

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

Injection

Drying Temperature	100 - 120 °C	
Drying Time, Dehumidified Dryer	3 - 4 h	
Melt Temperature Optimum	174 °C	Internal
Max. mould temperature	80 - 120 °C	
Back pressure	4 MPa	
Injection speed	slow	