

HOSTAFORM® MT®2U01

High molecular weight grade for extrusion and injection molding for health care market

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.

Rheological properties

Melt volume-flow rate	2.5 cm ³ /10min	ISO 1133
Temperature	190 °C	
Load	2.16 kg	
Moulding shrinkage range, parallel	2.1 %	ISO 294-4, 2577
Moulding shrinkage range, normal	1.8 %	ISO 294-4, 2577

Typical mechanical properties

Tensile Modulus	2600 MPa	ISO 527-1/-2
Yield stress, 50mm/min	62 MPa	ISO 527-1/-2
Yield strain, 50mm/min	9 %	ISO 527-1/-2
Nominal strain at break	32 %	ISO 527-1/-2
Flexural Modulus	2500 MPa	ISO 178
Tensile creep modulus, 1h	2300 MPa	ISO 899-1
Tensile creep modulus, 1000h	1100 MPa	ISO 899-1
Charpy impact strength, 23°C	250 ^[P] kJ/m ²	ISO 179/1eU
Charpy impact strength, -30°C	250 kJ/m ²	ISO 179/1eU
Charpy notched impact strength, 23°C	8.5 kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	7 kJ/m ²	ISO 179/1eA

[P]: Partial Break

Thermal properties

Melting temperature, 10°C/min	165 °C	ISO 11357-1/-3
Temp. of deflection under load, 1.8 MPa	101 °C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	110 E-6/K	ISO 11359-1/-2

Other properties

Humidity absorption, 2mm	0.2 %	Sim. to ISO 62
Water absorption, 2mm	0.65 %	Sim. to ISO 62
Density	1410 kg/m ³	ISO 1183

Injection

Drying Temperature	80 - 100 °C
Drying Time, Dehumidified Dryer	3 h
Max. mould temperature	77 - 93 °C
Back pressure	4 MPa

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Characteristics

Additives

Release agent

Processing Texts

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.