Terlux® HD 2802

MABS — INEOS Styrolution

Product Texts

Terlux® HD 2802 is a standard injection molding grade based on a MABS polymer. Terlux® HD 2802 offers an unique combination of properties, such as a balanced stiffness/toughness ratio and the high transparency well known in SAN molding compositions. Food contact statements are available on request.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**2**	cm³/10min	ISO 1133
Temperature	**220**	°C	-
Load	**10**	kg	-
[C] Density of melt	**960**	kg/m³	-
[C] Thermal conductivity of melt	**0.155**	W/(m K)	-
[C] Spec. heat capacity of melt	**2060**	J/(kg K)	-
[C] Ejection temperature	**90**	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2000**	MPa	ISO 527
[C] Yield stress	**48**	MPa	ISO 527
[C] Yield strain	**4**	%	ISO 527
[C] Nominal strain at break	**12**	%	ISO 527
[C] Charpy impact strength, +23°C	**120**	kJ/m²	ISO 179/1eU
[C] Charpy impact strength, -30°C	**80**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**5**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**2**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**90**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**94**	°C	ISO 75-1/-2
[C] Vicat softening temperature, B	**93**	°C	ISO 306
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
Yellow Card available	**yes**	-	-
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**3.0**	mm	-
Yellow Card available	**yes**	-	-

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.7**	%	Sim. to ISO 62
[C] Humidity absorption	**0.35**	%	Sim. to ISO 62
[C] Density	**1080**	kg/m³	ISO 1183

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**70**	°C	-
Pre-drying - Time	**2**	h	-
Melt temperature	**230 - 260**	°C	-
Mold temperature	**50 - 80**	°C	-

Characteristics

Processing
Injection Molding, Film Extrusion, Profile Extrusion, Sheet Extrusion, Blow Molding, Thermoforming

Delivery form
Pellets

Special Characteristics
Transparent, Sterilizable, Ethylene Oxide (EtO) Sterilization, Gamma irradiation sterilization

Chemical Resistance
Radiation Resistance

Certifications
Food contact, Food approval 10/2011, Food approval FDA 21 CFR, Medical Grade, Biocompatibility ISO 10993, US Pharmacopeia Class VI Approved, Drug Master File, Long term supply assurance

Applications
Medical

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa

Other text information

Injection molding
PREPROCESSING
Pre-drying, Temperature: 70°C
Pre-drying, Time: 2h
PROCESSING
Melt temperature, range: 230 - 260°C
Mold temperature, range: 50 - 75°C