

**Product Texts**

Terlux® HD 2822 is a standard-injection molding grade based on a MABS polymer. Terlux® HD 2822 offers a well balanced combination of stiffness and toughness and the high transparency well known in SAN molding compositions. Food contact statements are available on request.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	2	cm <sup>3</sup> /10min	ISO 1133
Temperature	220	°C	-
Load	10	kg	-
<sup>[C]</sup> Density of melt	960	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.155	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	2060	J/(kg K)	-
<sup>[C]</sup> Ejection temperature	90	°C	-

[C]: CAMPUS

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

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	90	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	94	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	93	°C	ISO 306

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	0.7	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	0.35	%	Sim. to ISO 62
<sup>[C]</sup> Density	1080	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Injection Molding, melt temperature	250	°C	ISO 294
Injection Molding, mold temperature	60	°C	ISO 294
Injection Molding, injection velocity	200	mm/s	ISO 294

[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: 2 h

**PROCESSING**

Melt temperature, range: 230 - 260 °C

Melt temperature, recommended: 245 °C

Mold temperature, range: 50 - 80 °C

Mold temperature, recommended: 65 °C