

# Terlux HD 2822

Methyl Methacrylate Acrylonitrile Butadiene Styrene (MABS)

## TECHNICAL DATASHEET

### DESCRIPTION

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.

### FEATURES

- Chemical resistance
- Impact strength
- Sterilisable(ETO,NO2, Irradiation)
- Transparency

### APPLICATIONS

- Medical devices
- Medical diagnostic equipment

Property, Test Condition	Standard	Unit	Values
<b>Rheological Properties</b>			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm <sup>3</sup> /10 min	2
<b>Mechanical Properties</b>			
Charpy Notched Impact Strength, 23° C	ISO 179/1eA	kJ/m <sup>2</sup>	5
Charpy Notched Impact Strength, -30 °C	ISO 179/1eA	kJ/m <sup>2</sup>	2
Charpy Unnotched, 23 °C	ISO 179/1eU	kJ/m <sup>2</sup>	120
Charpy Unnotched, -30 °C	ISO 179/1eU	kJ/m <sup>2</sup>	80
Tensile Modulus	ISO 527	MPa	2000
Tensile Stress at Yield, 23 °C	ISO 527	MPa	48
Tensile Strain at Yield, 23 °C	ISO 527	%	4
Nominal Strain at Break, 23 °C	ISO 527	%	12
Flexural Modulus, 23 °C	ISO 178	MPa	2000
Flexural Strength, 23 °C	ISO 178	MPa	70
Hardness, Ball Indentation	ISO 2039-1	MPa	70
<b>Thermal Properties</b>			
Vicat Softening Temperature VST/B/50 (50N, 50 °C/h)	ISO 306	°C	93
Vicat Softening Temperature, VST/A/50 (10N, 50 °C/h)	ISO 306	°C	105

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Property, Test Condition	Standard	Unit	Values
Heat Deflection Temperature A; (annealed 4 h/80 °C; 1.8 MPa)	ISO 75	°C	90
Heat Deflection Temperature B; (annealed 4 h/80 °C; 0.45 MPa)	ISO 75	°C	94
Coefficient of Linear Thermal Expansion	ISO 11359	10 <sup>-6</sup> /°C	80 - 110
Thermal Conductivity	ISO 22007-4	W/(m K)	0.17
<b>Optical Properties</b>			
Refractive Index, Sodium D Line	ISO 489	-	1.54
Haze	ASTM D 1003	%	< 3
Light Transmission at 550 nm	ASTM D 1003	%	89
<b>Other Properties</b>			
Density	ISO 1183	kg/m <sup>3</sup>	1080
Water Absorption, Saturated at 23 °C	ISO 62	%	0.7
<b>Processing</b>			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Melt Temperature Range	ISO 294	°C	230 - 260
Mold Temperature Range	ISO 294	°C	50 - 75
Drying Temperature	-	°C	70
Drying Time	-	h	2