

Terlux 2822HD

Methyl Methacrylate Acrylonitrile Butadiene Styrene (MABS)



Driving Success. Together.

Technical Datasheet

DESCRIPTION

Terlux 2822 HD is a new standard-injection molding grade based on a MABS polymer. Terlux 2822 HD offers a well balanced combination of stiffness and toughness and the high transparency well known in SAN molding compositions.

FEATURES

- Excellent transparency
- Good resistance to chemicals
- Good Stiffness and surface finish
- High impact strength
- HD service package available

APPLICATIONS

- Medical devices

Property, Test Condition	Standard	Unit	Values
Rheological Properties			
Melt Volume Rate 220 °C/10 kg	ISO 1133	cm ³ /10 min	2
Melt Volume Rate, 200 °C/21.6 kg	ISO 1133	cm ³ /10 min	17
Mechanical Properties			
Charpy Notched Impact Strength, 23° C	ISO 179	kJ/m ²	5
Charpy Notched Impact Strength, -30° C	ISO 179	kJ/m ²	2
Charpy Unnotched, 23° C	ISO 179	kJ/m ²	120
Charpy Unnotched, -30° C	ISO 179	kJ/m ²	80
Tensile Stress at Yield, 23° C	ISO 527	MPa	48
Tensile Strain at Yield, 23° C	ISO 527	%	4
Tensile Modulus	ISO 527	MPa	2000
Tensile Creep Modulus (1000h)	ISO 899	MPa	1250
Nominal Strain at Break, 23 °C	ISO 527	%	12
Flexural Strength	ISO 178	MPa	70
Hardness, Ball Indentation	ISO 2039-1	MPa	70
Thermal Properties			
Vicat Softening Temperature VST/B/50 (50°C/h, 50N)	ISO 306	°C	93
Vicat Softening Temperature, VST/A/50 (50°C/h, 10N)	ISO 306	°C	105

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Heat Deflection Temperature A; (annealed, 1.8 MPa)	ISO 75	°C	90
Heat Deflection Temperature B; (annealed, 0.45 MPa)	ISO 75	°C	94
Coefficient of Linear Thermal Expansion	ISO 11359	10-6/°C	80 - 110
Thermal Conductivity	DIN 52612-1	W/(m K)	0.17
Electrical Properties			
Dielectric Constant (100 Hz)	IEC 60250	-	2.9
Dissipation Factor (100 Hz)	IEC 60250	-	160
Dissipation Factor (1 MHz)	IEC 60250	-	140
Volume Resistivity	IEC 60093	Ohm*m	1E13
Surface Resistivity	IEC 60093	Ohm	1E15
Optical Properties			
Refractive Index, Sodium D Line	ISO 489	-	1.540
Other Properties			
Density	ISO 1183	kg/m ³	1080
Bulk Density (with external lubricant)		kg/m ³	590
Water Absorption, Saturated at 23°C	ISO 62	%	0.7
Processing			
Linear Mold Shrinkage	ISO 294-4	%	0.4 - 0.7
Melt Temperature Range	ISO 294	°C	230 - 260
Mold Temperature Range	ISO 294	°C	60
Injection Velocity	ISO 294	mm/s	200
Drying Temperature		°C	70
Drying Time		h	2