

Terlux® HD 2802

Methyl Methacrylate / ABS

INEOS Styrolution Group GmbH

Message:

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. Terlux® HD 2802 is supplied only for established applications. For new HD projects we offer Terlux® HD 2822.

General Information			
UL YellowCard	E108538-100840241		
Features	Balanced Stiffness/Toughness		
	Good Chemical Resistance		
	Good Stiffness		
	Good Surface Finish		
	High Clarity		
	High Impact Resistance		
Uses	Medical/Healthcare Applications		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm ³	ISO 1183
Apparent Density ¹	0.59	g/cm ³	
Melt Volume-Flow Rate (MVR)			ISO 1133
220°C/10.0 kg	2.00	cm ³ /10min	
220°C/21.6 kg	17.0	cm ³ /10min	
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.70	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	70.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2000	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	48.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4.0	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	12	%	ISO 527-2
Tensile Creep Modulus (1000 hr)	1250	MPa	ISO 899-1
Flexural Stress	70.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-30°C	2.0	kJ/m ²	
23°C	5.0	kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179
-30°C	80	kJ/m ²	
23°C	120	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	94.0	°C	ISO 75-2/B
1.8 MPa, Annealed	90.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	105	°C	ISO 306/A50
--	93.0	°C	ISO 306/B50
CLTE - Flow	8.0E-5 to 1.1E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.17	W/m/K	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Dielectric Constant (100 Hz)	2.90		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	0.016		
1 MHz	0.014		
Optical	Nominal Value		Test Method
Refractive Index	1.540		ISO 489
Injection	Nominal Value	Unit	
Drying Temperature	70.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	230 to 260	°C	
Mold Temperature	60.0	°C	
Injection Velocity	200	mm/sec	
NOTE			
1.	With external lubricant		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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