

Terlux® 2812

Methyl Methacrylate / ABS
INEOS Styrolution Group GmbH

Message:

Terlux® 2812 is an easy-flowing injection molding grade based on a MABS polymer. Terlux® 2812 offers an unique combination of properties, such as a balanced stiffness/toughness ratio and the high transparency well known in SAN molding compositions.

General Information			
UL YellowCard	E108538-100840244		
Features	Balanced Stiffness/Toughness		
	Good Chemical Resistance		
	Good Flow		
	Good Stiffness		
	Good Surface Finish		
	High Clarity		
	High Impact Resistance		
Uses	Cosmetic Packaging		
	Household Goods		
	Housings		
	Sporting Goods		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.08	g/cm³	ISO 1183
Melt Volume-Flow Rate (MVR)			ISO 1133
220°C/10.0 kg	8.00	cm³/10min	
220°C/21.6 kg	45.0	cm³/10min	
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	75.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	1900	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	42.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4.0	%	ISO 527-2
Nominal Tensile Strain at Break (23°C)	20	%	ISO 527-2
Flexural Stress	60.0	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	70	kJ/m ²	
23°C	110	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Annealed	93.0	°C	ISO 75-2/B
1.8 MPa, Annealed	87.0	°C	ISO 75-2/A
Vicat Softening Temperature	87.0	°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+16	ohms·cm	IEC 60093
Dielectric Constant (100 Hz)	3.00		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	0.016		
1 MHz	0.013		
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	

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