

SymTerra™ iLD1

Thermoset, Unspecified

Premix, Inc.

Message:

SymTerra™ iLD1 is a fiberglass reinforced thermoset Thick Molding Compound for composite applications where weight savings is important. Ideal for automated Injection or Injection-Compression molding.
Available with Renewable Resource Content
TMC compounding process preserves glass integrity for strength vs BMC.
Specific gravity of 1.2 for weight savings vs. standard composites
Pigmentable with uniform color at low shrinkage

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Good Colorability		
	Low Density		
Forms	TMC - Thick Molding Compound		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	
Molding Shrinkage - Flow	0.075	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	6890	MPa	ISO 527-2
Tensile Stress ¹	34.5	MPa	ISO 527-2
Flexural Modulus			ISO 178
23°C, Injection Molded	6890	MPa	
150°C, Injection Molded	3790	MPa	
175°C, Injection Molded	3310	MPa	
Flexural Stress (Injection Molded)	82.7	MPa	ISO 178
Poisson's Ratio	0.33		Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength (Injection Molded)	18	kJ/m ²	ISO 180
Unnotched Izod Impact Strength (Injection Molded)	20	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	199	°C	ASTM D4065
CLTE			
Flow ²	1.9E-5	cm/cm/°C	

Transverse ³	5.6E-5	cm/cm/°C
Thermal Conductivity	0.21	W/m/K
Injection	Nominal Value	Unit
Mold Temperature	160	°C
Injection Pressure	6.89	MPa
NOTE		
1.	Injection Molded	
2.	XY Direction	
3.	Z Direction	

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