

SymTerra™ LD1

Thermoset, Unspecified

Premix, Inc.

Message:

SymTerra™ LD1 is a fiberglass reinforced thermoset sheet molding compound for structural and semi-structural applications where high strength and durability are required in a low density composite.
Specific gravity of 1.2 for weight savings vs. standard composites.
Excellent flexural strength and outstanding toughness.
Pigmentable with uniform color at low shrinkage
Available with Renewable Resource Content

General Information			
Filler / Reinforcement	Glass Fiber,41% Filler by Weight		
Features	Durable		
	Good Colorability		
	Good Toughness		
	High Strength		
	Low Density		
	Low Shrinkage		
Forms	SMC - Sheet Molding Compound		
Processing Method	Compression Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow	-0.025	%	
Water Absorption (Equilibrium)	0.20	%	ASTM D2584
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Compression Molded)	8270	MPa	ASTM D638
Tensile Strength (Compression Molded)	62.1	MPa	ASTM D638
Tensile Elongation (Break, Compression Molded)	1.4	%	ASTM D638
Flexural Modulus			ASTM D790
23°C, Compression Molded	6890	MPa	
Secant : 23°C, 0.500 mm, Compression Molded	6890	MPa	
Secant : 23°C, 2.50 mm, Compression Molded	6890	MPa	
Secant : 150°C, 0.500 mm, Compression Molded	4410	MPa	
Secant : 150°C, 2.50 mm, Compression Molded	4000	MPa	
Secant : 175°C, 0.500 mm, Compression Molded	4070	MPa	

Secant : 175°C, 2.50 mm, Compression Molded			
	3100	MPa	
Flexural Strength (Compression Molded)	159	MPa	ASTM D790
Compressive Strength ¹	159	MPa	ASTM D695
Poisson's Ratio	0.33		Internal Method
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (Compression Molded)	690	J/m	ASTM D256
Unnotched Izod Impact (Compression Molded)	1100	J/m	ASTM D256
Thermal	Nominal Value	Unit	
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	149	°C	
Injection Pressure	3.45 to 6.89	MPa	
NOTE			
1.	Compression Molded		
2.	XY Direction		
3.	Z Direction		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

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



WECHAT