

Metton® LMR M2100V0

Dicyclopentadiene

Metton America, Inc.

Message:

The Metton LMR reaction injection molding process can provide large parts in low pressure molds with the mechanical property performance similar to injection molded engineering thermoplastics. The combination of Metton LMR's process and material capabilities result in a new design freedom for replacing traditional materials such as metal, wood and fiberglass.

Fiber reinforced products tend to have poorer durability, but higher equivalent section modulus. In most semi-structural applications, Metton LMR can be designed to provide equivalent part stiffness for performance and generally at a significant weight reduction.

This section contains polymer property data necessary to initially assess the compatibility of Metton LMR with a particular application. The Metton LMR product family includes a standard M15XX product line and a flame-retardant product which meets the requirements for classification as U.L. V-O. The Metton M15XX includes the products M1534, M1537, M1539 and M1540. The Metton V-0 product uses a special three stream RIM injection machine.

General Information			
Forms	Liquid		
Processing Method	Liquid Injection Molding (LIM) Reaction Injection Molding (RIM)		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1980	MPa	ASTM D638
Tensile Strength (Yield)	44.8	MPa	ASTM D638
Tensile Elongation (Yield)	4.0	%	ASTM D638
Flexural Modulus	2010	MPa	ASTM D790
Flexural Strength (5.0% Strain)	74.5	MPa	ASTM D790
Poisson's Ratio	0.39		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C	53	J/m	
23°C	400	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	105	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94

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