

Lite Resin Transfer Molding

Low Emission, Appearance, Design Engineered, RTM

The Molded Fiber Glass Lite Resin Transfer Molding or LEADER (Low Emission, Appearance, Design Engineered, RTM) process produces an aesthetically appealing part that is smooth on both sides. This environmentally friendly process utilizes a fiberglass mat and filled resin in a vacuum sealed closed mold resulting in reduced VOC emissions. If you require parts that are intricately engineered and designed we can produce them using LEADER. With this technology we can control the part thickness and provide you with a more consistent product.

The LEADER process is best suited for low to medium volume production. If you require 200 to 10,000 parts annually this may be the best alternative for you. It enables us to produce parts from 1 square foot in size up to 360 square feet and weigh as much as 800 lbs. Another advantage of this process is that it enables us to provide you with prototypes quickly and reduce your time to market.



Typical Physical Properties are as follows; however, we can tailor the properties to suit your requirements.

Test Results:

	ASTM	Mean	Unit	N	STDEV
Barcol Hardness	D-2583	57	NA	10	2
Tensile Strength	D-638	9.90E+03	psi	6	8.00E+02
Tensile Modulus	D-638	1.05E+06	psi	6	7.00E+04
Flex Strength	D790	3.36E_04	psi	6	3.70E+03
Flex Modulus	D790	1.36E+06	psi	6	5.00+04
IZOD Impact	D-256A	17.1	ftlbs/in	6	2.2
Break Type		6H			
Glass Contents	D2584	25	%	6	3.14
Glass Thickness	D2584	0.125	in	6	0.005
Specific Gravity @ 21°C	D-792	1.45	NA	5	0.02
Water Absorption	D-570	0.24	%	5	0.02
Burn Resistance	FMVSS302	No Burn	in/min		

Structural shapes, reinforcing parts, prototypes for other processes, and paint ready parts are some examples of products that can be produced by the Molded Fiber Glass LEADER process. The LEADER process tooling cost over the product's life cycle is more cost effective than other closed mold processes. If you desire a smooth, attractive, and consistent product from the LEADER process please contact us at MFG Union City.



A Molded Fiber Glass Company