

Lexan* FMR Sheet

Product Datasheet

Description

Lexan* FMR coated sheet is a two-side, hard-coated polycarbonate material offering excellent impact resistance, optical clarity and abrasion resistance. Lexan FMR sheet may be cold-formed or heat-drape-formed to soft radii. Lexan FMR sheet is an excellent candidate for functional parts requiring exceptional toughness and surface hardness. Typical applications include: motorcycle windscreens, race car windshields, and industrial conveyor covers. Available in thicknesses from .125" through .500", Lexan FMR sheet is easily fabricated on common equipment.

Typical Property Values ♦

Property	Test Method	Unit	Value
Physical			
Specific Gravity	ASTM D792	-	1.20
Sound Transmission, STC Rating (36" x 84")	ASTM E9070	-	
@.125"			25
@.187"			29
@.250"			31
@.375"			34
@.500"			34
Abrasion Resistance, Taber Abrader, 100 Cycles, CS-10F Wheel, 500g Load	ASTM D1044-76	%	<10.0
Mechanical			
Tensile Strength, Ultimate	ASTM D638	psi	8,500
Tensile Modulus	ASTM D638	psi	345,000
Flexural Strength	ASTM D790	psi	13,500
Flexural Modulus	ASTM D790	psi	340,000
Flexural Endurance @ 1,800 Cycles/Min, 73°F, 50% RH	ASTM D671	psi	1,000
Elongation	ASTM D638	%	110
Compressive Strength	ASTM D695	psi	12,500
Gardner Impact Strength	Gardner	in-lbs	>320
Thermal			
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.75 x 10 ⁻⁵
Heat Deflection Temperature	ASTM D648	°F	
@ 264 psi			270
@ 66 psi			280

♦ These typical values are not intended for specification purposes. If minimum certifiable properties are required please contact your local GE-Plastics, Specialty Film & Sheet representative.

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