

DATA SHEET

POLYCARBONATE / LEXAN

PHYSICAL	
SPECIFIC GRAVITY	1.20
WATER ABSORPTION, 24 hr. (%)	.15
MECHANICAL	
TENSILE	
Strength, Yield (10 ³ psi) @ 73°F.	9.0
Elongation, Ultimate (%) @ 73°F.	135
Modulus, Yield (10 ³ psi) @ 73°F.	300 - 350
FLEXURAL	
Strength, (10 ³ psi) @ 73°F.	14.0 - 14.2
Modulus, Yield (10 ³ psi) @ 73°F.	340 - 350
COMPRESSIVE STRENGTH	
2% Offset, (10 ³ psi)	12.5
IMPACT STRENGTH	
Izod, Notched (ft. - lb./in.) @ 73°F.	17
HARDNESS	
COEFFICIENT OF STATIC FRICTION	R118
Against self	
Against steel	0.31
THERMAL	
CONDUCTIVITY	
(BTU/hr/sq. ft./Degree F./in.)	1.35
COEFF. OF THERMAL EXPANSION	
(10 ⁻⁵ /Degree F.)	3.75 - 3.8
SPECIFIC HEAT	
(BTU/lb./Degree F.)	0.30
HEAT DEFLECTION TEMP.	
(Degree F.)	
At 66 psi.	275
At 264 psi	270
MAX. CONTINUOUS TEMP. (F.°)	250
ELECTRICAL	
VOLUME RESISTIVITY	
(Ohm/cm)	>10 ¹⁶
DIELECTRIC STRENGTH	
(V/Mil)	380 - 399
DIELECTRIC CONSTANT	
At 60 HZ	3.0 - 3.17
At 1 MHZ	2.96
DISSIPATION FACTOR	
At 60 HZ	.0009
At 1 MHZ	.0010
ARC RESISTANCE (seconds)	120