



Lexan®(Polycarbonate) General Material Properties

Property	Metric	units	English	units
General				
Density	1.19e3 - 1.2e3	kg/m ³	0.0431 - 0.0434	lb/ft ³
Mechanical				
Yield Strength	6.4e7 - 6.6e7	Pa	9.28 - 9.57	ksi
Tensile Strength	6.16e7 - 6.81e7	Pa	8.94 - 9.88	ksi
Elongation	0.524 - 0.981	% strain	52.4 - 98.1	% strain
Hardness (Rockwell M)	80.8 - 89.3	Pa	80.8 - 89.3	HV
Impact Strength (unnotched)	1.9e5 - 2e5	J/m ²	90.4 - 95.2	ft.lbf/in ²
Young's Modulus	2.1e9 - 2.15e9	Pa	0.304 - 0.312	10 ⁶ ps
Thermal				
Insulator or Conductor	Insulator		Insulator	
Specific Heat Capability	1.23e3 - 1.28e3	J/kg °C	0.293 - 0.305	BTU/lb. °F
Thermal Expansion Coefficient	6e-5 - 8e-5	strain/°C	33.3 - 44.4	μstrain/°F
Eco				
CO2 Footprint	4.27 - 4.71	kg/kg	4.27 - 4.71	lb/lb
Recycleable	Yes		Yes	

The information on this page is intended as general guidance only and is only accurate at the time of posting (8-16-12). Specific material properties vary by manufacturer. Please contact a Dielectric application engineer for help in choosing the optimal material for your application and budget.