



## Canvas

### General Material Properties

Property	Metric	units	English	units
<b>General</b>				
Density	1.38e3 - 1.42e3	kg/m <sup>3</sup>	0.0499 - 0.0513	lb/ft <sup>3</sup>
<b>Mechanical</b>				
Yield Strength	3.31e7 - 5.52e7	Pa	4.8 - 8.01	ksi
Tensile Strength	4.14e7 - 6.9e7	Pa	6.0 - 10	ksi
Elongation	0.01 - 0.02	% strain	1.0 - 2.0	% strain
Hardness (Vickers)	9.71e7 - 1.63e8	Pa	9.9 - 16.6	HV
Impact Strength (notched)	1.6e3 - 1e4	J/m <sup>2</sup>	0.761 - 4.76	ft.lbf/in <sup>2</sup>
Fracture Toughness	1.49e6 - 3.38e6	Pa/m <sup>0.5</sup>	1.35 - 3.08	ksi/in <sup>0.5</sup>
Young's Modulus	7.58e9 - 9.65e9	Pa	1.1 - 1.4	10 <sup>6</sup> psi
<b>Thermal</b>				
Max Service Temperature	142 - 158	°C	288 - 316	°F
Insulator or Conductor	Insulator		Insulator	
Specific Heat Capability	1.38e3 - 1.43e3	J/kg °C	0.329 - 0.342	BTU/lb. °F
Thermal Expansion Coefficient	2.7e-5 - 3.96e-5	strain/°C	15 - 22	μstrain/°F
<b>Eco</b>				
CO2 Footprint	2.82 - 3.12	kg/kg	2.82 - 3.12	lb/lb
Recycleable	No		No	

The information on this page is intended as general guidance only and is only accurate at the time of posting (9-10-12). Specific material properties vary by manufacturer. Please contact a Dielectric application engineer for help in choosing the optimal material for your application and budget.