

Physical Properties	Unit	Test Method	3mm-12.7mm
Density	g/cm <sup>3</sup>	ASTM D792	0.56
Water Absorption	%	ASTM D570	2.5-5.5
Surface Energy	Dyne		32-34
Hardness	Shore D	ASTM D2440	45-50
<b>Mechanical Properties</b>			
Tensile Strength @ Break	psi	ASTM D638	1223 (12.7mm)
Flexural Strength @5%	psi	ASTM D790	740 (12.7mm)
Tensile Modulus	psi	ASTMD638	94892 (12.7mm)
Flexural Modulus	psi	ASTM D790	28600 (12.7mm)
Screw Hold	psi	ASTM D1761	440 (12.7mm)
Izod Impact (Un-notched)	ft-lb/in	ASTM D 256	2.38 (12.7mm)
<b>Thermal Properties</b>			
Heat Deflection Temp	°C	ASTM D648	132-140 (6mm)
Coefficient of Linear Expansion	CLTE (/°C)10 <sup>-6</sup>	ASTM E831	73-80 (3-6mm)
Vicat Softening Point	°C	ASTM D1525	149-154 (6mm)
Thermal Resistance R	R	ASTM C518	0.795 (12.7mm)
<b>Flammability</b>			
Flame Spread Index	Class (A,B,C)	UL E84	A/B
Vertical Burn Test		UL 94	VO (1-6mm)
Fire Foam Test		UL 1975	Have 2007 Test Report
<b>Electrical Properties</b>			
Dielectric Strength	kV/mm	ASTM D194	6.8-9.0
<b>Compliances</b>			
		RoHS	Yes
		Prop 65	Yes
		REACH	No



Physical Properties	Unit	Test Method	19mm & 25mm
Density	g/cm <sup>3</sup>	ASTM D792	0.60
Water Absorption	%	ASTM D570	1.15 (19mm)
Surface Energy	Dyne		32-34
Hardness	Shore D	ASTM D2440	55-60
<b>Mechanical Properties</b>			
Tensile Strength @ Break	psi	ASTM D638	1313 (19mm)
Flexural Strength @5%	psi	ASTM D790	2420 (19mm)
Tensile Modulus	psi	ASTMD638	121874 (19mm)
Flexural Modulus	psi	ASTM D790	102559 (19mm)
Screw Hold	psi	ASTM D1761	508 (19mm)
Izod Impact (Un-notched)	ft-lb/in	ASTM D 256	2.72 (19mm)
<b>Thermal Properties</b>			
Heat Deflection Temp	°F	ASTM D648	NA
Coefficient of Linear Expansion	CLTE (/°C)10 <sup>-6</sup>	ASTM E831	NA
Vicat Softening Point	°F	ASTM D1525	NA
Thermal Resistance R	R	ASTM C518	0.573 (19mm)
<b>Flammability</b>			
Flame Spread Index	Class (A,B,C)	UL E84	B (19mm)
Vertical Burn Test		UL 94	NA
Fire Foam Test		UL 1975	NA
<b>Electrical Properties</b>			
Dielectric Strength	kV/mm	ASTM D194	7.8
<b>Compliances</b>			
		RoHS	Yes
		Prop 65	Yes
		REACH	No