

Physical Properties	Unit	Test Method	3mm-12.7mm
Density	g/cm ³	ASTM D792	0.56
Water Absorption	%	ASTM D570	2.5-5.5
Surface Energy	Dyne		32-34
Hardness	Shore D	ASTM D2440	45-50
Mechanical Properties			
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)
Thermal Properties			
Heat Deflection Temp	°C	ASTM D648	132-140 (6mm)
Coefficient of Linear Expansion	CLTE (/°C)10 ⁻⁶	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)
Flammability			
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
Electrical Properties			
Dielectric Strength	kV/mm	ASTM D194	6.8-9.0
Compliances			
		RoHS	Yes
		Prop 65	Yes
		REACH	No



Physical Properties	Unit	Test Method	19mm & 25mm
Density	g/cm ³	ASTM D792	0.60
Water Absorption	%	ASTM D570	1.15 (19mm)
Surface Energy	Dyne		32-34
Hardness	Shore D	ASTM D2440	55-60
Mechanical Properties			
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)
Thermal Properties			
Heat Deflection Temp	°F	ASTM D648	NA
Coefficient of Linear Expansion	CLTE (/°C)10 ⁻⁶	ASTM E831	NA
Vicat Softening Point	°F	ASTM D1525	NA
Thermal Resistance R	R	ASTM C518	0.573 (19mm)
Flammability			
Flame Spread Index	Class (A,B,C)	UL E84	B (19mm)
Vertical Burn Test		UL 94	NA
Fire Foam Test		UL 1975	NA
Electrical Properties			
Dielectric Strength	kV/mm	ASTM D194	7.8
Compliances			
		RoHS	Yes
		Prop 65	Yes
		REACH	No

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