

Zenolite® 4MM Technical Information

Physical Properties

		Metric		US	
General					
Specific Gravity	ASTM D-792	1.19	-	1.19	-
Water Absorption	ASTM D-570	< 0.5	%	< 0.5	%
Weight		14.5	kg	32	lb.
Dimensions					
Diagonal Difference	-	< 4	mm	< 0.16	in
Thickness	-	4	mm	0.16	in
Sheet Size		2440 x 1220	mm	8 x 4	feet
Mechanical					
Tensile Strength, Max.	ASTM D-638	69	MPa	10,000	psi
Elongation at Break	ASTM D-638	4	%	4	%
Tensile Modulus	ASTM D-638	3000	MPa	435,000	psi
Flexural Strength	ASTM D-790	103	MPa	15,000	psi
Flexural Modulus	ASTM D-790	3000	MPa	435,000	psi
Izod Impact Strength, Milled Notch	ASTM D-256	15	J/m	0.28	ft/lbs.in
Abrasion (Taber, 10 rots. CS10F 500g)	ASTM D-1044	20-30	% Haze	20-30	% Haze
Thermal					
HDT, 264psi, 1.82MPa	ASTM D-648	87	°C	188.6	°F
Specific Heat Capacity		1.47	J/gK	0.35	BTU/lb-°F
CTE, -30 to 30C	ASTM D-696	7	mm/(mm.°C)x10 ⁻⁵	4	in/(in.°F)x10 ⁻⁵
Thermal Conductivity	ASTM C-177	0.18	W/mK	1.25	BTU-in/hr-ft2-°F
Continuous service temperature		70	°C	158	°F
Degradation Temperature		> 275	°C	> 530	°F
Flame Spread	ASTM E84	< 120 ¹	-	< 120 ¹	-

Applications

Zenolite can be used in various vertical surface applications around the home, office or commercial environment.

Zenolite 4mm is used for furniture, cabinet making and joinery applications that are laminated to moisture resistant substrates or secured into extruded aluminum or wood frames.

Zenolite is not recommended for outdoor use or where a direct heat source is applied such as behind gas cook tops or stove tops, or where highly acidic or volatile chemicals are used.