

Zenolite® 2MM 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		7.3	kg	16	lb.
Dimensions					
Diagonal Difference	-	< 4	mm	< 0.16 (5/32)	in
Thickness	-	2	mm	0.08 (3/32)	in
Sheet Size		2465 x 1240	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	130*	-	130*	-

*As tested at BodyCote (report number 08-002-719) on 6mm/0.24" sheeting.

Applications

Zenolite 2mm is used for furniture, cabinet making and joinery applications that are laminated to moisture resistant substrates.

Zenolite is not recommended for outdoor use.