

Physical Properties for Selected Minerit Board Products*

Density, dry, pcf

Moisture Content, normal, %

Modulus of Rupture, psi

MD
CMD

Modulus of Elasticity, psi, x 10°

Tensile Strength, psi, MD
(Parallel to surface) CMD

Compressive Strength, psi

Impact Strength, lb-ft/ft²

Water Absorption, %, oven dry - saturation

Thermal Conductivity, BTU-in/ft², hr, °F

Coefficient of Thermal Expansion, in/in, °F, x 10°
68°F - 212°F

Moisture Movement, in/ft
Oven dry - saturation

Surface Burning Characteristics, Class I

Flame spread
Smoke developed

Continuous Maximum Temperature, °F

Non-combustible

Properties based on 1/4" (HD, MP, LW)

	HD	LW
Density, dry, pcf	99	69
Moisture Content, normal, %	6	12
Modulus of Rupture, psi		
MD	4000	1880
CMD	2900	1300
Modulus of Elasticity, psi, x 10°	2.0	.580
Tensile Strength, psi, MD (Parallel to surface) CMD	2100 1100	580 430
Compressive Strength, psi	5800	NA
Impact Strength, lb-ft/ft ²	230	137
Water Absorption, %, oven dry - saturation	9 – 15	48
Thermal Conductivity, BTU-in/ft ² , hr, °F	1.7	1.3
Coefficient of Thermal Expansion, in/in, °F, x 10° 68°F - 212°F	5.0	3.9
Moisture Movement, in/ft Oven dry - saturation	.048	.042
Surface Burning Characteristics, Class I		
Flame spread	0	0
Smoke developed	0	0
Continuous Maximum Temperature, °F	250	250
Non-combustible	ASTM E 136	ASTM E 136