

TYPICAL PHYSICAL PROPERTIES (8 oz./ft.² Nominal Weight)

R Panel—Chopped Strand Mat Reinforcement

	ASTM No.	
Tensile strength	D638	10,000 (PSI)
Tensile modulus	D638	1.6 x 10 ⁶ (PSI)
Flexural strength	D790	25,000 (PSI)
Flexural modulus	D790	1.10 x 10 ⁶ (PSI)
Compressive strength	D695	25,000 (PSI)
Shearing strength	D732	12,000 (PSI)
Barcol hardness	D2583	45
Glass content	D2584	22% ± 2%
Water absorption	D570	0.25% @ 72°F/72 hrs.
Specific gravity	D792	1.45
Izod impact	D256	9.0 ft. lbs/in.
Coefficient of linear thermal expansion	D696	2.09 x 10 ⁻⁵ in/in/°F
Flash ignition temperature	D1929	730°F

R Panel—Woven Roving/chopped strand mat reinforcement

Tensile strength	D638	23,000 (PSI)
Tensile modulus	D638	1.5 x 10 ⁶ (PSI)
Flexural strength	D790	33,000 (PSI)
Flexural modulus	D790	1.2 x 10 ⁶ (PSI)
Compression strength	D695	30,000 (PSI)
Shearing strength	D732	16,000 (PSI)
Barcol hardness	D2583	45
Glass content	D2584	35% ± 2%
Water absorption	D570	0.25% @ 72°F/72 hrs.
Specific gravity	D792	1.60
Izod impact	D256	14.0 ft. lbs/in.
Flash ignition temperature	D1929	730°F

SPAN AND LOADING TABLE (180 Series Panels)

	2½"	2.67"	R	U	4.2"	7.2"	5.33"
Roofing							
10 psf	66"	71"	63"	71"	72"	76"	75"
20 psf	57"	62"	49"	58"	60"	65"	74"
30 psf	47"	54"	34"	44"	48"	54"	72"
40 psf	38"	46"	20"	31"	36"	42"	70"
Siding							
10 psf	67"	73"	67"	75"	75"	80"	76"
20 psf	63"	68"	57"	65"	66"	71"	75"
30 psf	59"	62"	46"	55"	58"	63"	73"
40 psf	54"	57"	36"	46"	49"	55"	72"

The above table is presented as a guideline only. UNDER NO CIRCUMSTANCES SHOULD ANY PANEL BE USED AS A WALKING SURFACE OR AS A SUPPORT FOR ANY OTHER UNDISTRIBUTED LOADS. Data derived from actual load tests are based on L/45 for roofing applications and L/30 for siding applications. Stress data is based on safety factors of 2.5 for roofing and 1.8 for siding. All proposed spans should be verified by actual load tests to avoid premature failure. Any application must be checked and verified by a licensed engineer or architect.

TYPICAL LIGHT TRANSMISSION VALUES

Color	150 Series	180 Series
400 Light Green	85	75
614 White	65	55
718 Clear	94	93

Percentages given were obtained using ASTM 1494-60, and are subject to tolerances of ± 5%.