

TECHNICAL DATA

CHARACTERISTICS	TEST METHOD	UNIT OF MEASUREMENT	EARTHELEMENTSTM (RANGE OF VALUES)
DENSITY	ASTM C97	Kg/M³ LBS/FT³	2.3 - 2.4 gr/cm
FLEXURAL STRENGTH (Modules Rupture)	ASTM C880	MPa	61 (Dry) 70(Wet)
WATER ABSORPTION	ASTM C97	%	0.03
COMPRESSIVE STRENGTH	ASTM C170	MPa	143 - 150 (Dry) 126 - 146 (Wet)
COEFFICIENT OF THERMAL EXPANSION	ASTM C531	Inch/°F	2.2 x 10 ⁻⁵
BARCOL HARDNESS	ASTM D2583	Index (0 - 100)	87
ABRASION RESISTANCE	ASTM C501	Wear Index	<183 Minimum
GLOSS	Gloss meter	% Incident light reflected at 60°	45% Minimum
BREAKING STRENGHT	ASTM C648	LBF	4160
IMPACT RESISTANCE	ASTM D256	J/M	40 - 61
STAIN RESISTANCE	ANSI Z124	Pass/Fail	Pass
WEAR & CLEANABILITY	ANSI Z124	Pass/Fail	Pass
BOILING WATER RESISTANCE	NEMA LD 3 - 3.5	-	No effect

NOTE : The values quoted above for EarthElementsTM are the average range of values.

SUPERIOR STRENGH VS. COMPETITION

STRENGTH TEST	EARTHELEMENTSTM RESULTS	HOW DO EARTHELEMENTSTM COMPARE TO LEADING BRANDS PUBLISHED DATE
IMPACT TESTING IZOD ASTM D-256	95.9 J/M	Up to 300% better than leading brands published data
FLEXURAL STRENGTH ASTM C-880	61-70 MPa	200%-400% better than leading brands published data
BREAKING STRENGTH ASTM C-648	4160 lbf	As good or better than leading brands published data

RESULT

EarthElementsTM are denser and more abrasion resistant with very low moisture absorption and excellent stain resistance. EarthElementsTM also offer superior flex and impact strength.

