

HIGH DENSITY (HD) ACRE

	TEST METHOD	PROPERTY	HD SAMPLE AVERAGE
PHYSICAL	ASTM D792	Specific Gravity	0.896
	ASTM D792	Density [g/cc]	0.894
	ASTM D570	Water Absorption Increase in Weight [%]	2.3
MECHANICAL	ASTM D638	Tensile Strength at Yield [psi]	1,713
	ASTM D638	Tensile Strength at Break [psi]	1,536
	ASTM D638	Elongation at Yield [%]	2.3
	ASTM D638	Elongation at Break [%]	3.4
	ASTM D638	Modulus of Elasticity [ksi]	218
	ASTM D790	Flexural Strength at Yield [psi]	3,792
	ASTM D790	Flexural Strain at Yield [%]	2.8
	ASTM D790	Flexural Modulus of Elasticity [ksi]	227
	ASTM D2240	Shore D Hardness	69
	ASTM D696	Coefficient of Thermal Expansion [$1/^{\circ}\text{F} \times 10^{-5}$]	3.05
	ASTM D256	Impact Resistance [ft-lbs/in]	0.331
	ASTM D 1761	Screw Hold [lbf/in]	910
ASTM D 1761	Nail Hold [lbf/in]	237	
THERMAL	ASTM D648	Heat Deflection Temperature, 66 psi [$^{\circ}\text{F}$]	145
	ASTM D648	Heat Deflection Temperature, 264 psi [$^{\circ}\text{F}$]	145
	ASTM D3418	Melt Temperature, Onset [$^{\circ}\text{F}$]	525
	ASTM D3418	Melt Temperature, Peak [$^{\circ}\text{F}$]	565
	ASTM C518	R Value [$^{\circ}\text{F}\cdot\text{ft}^2\cdot\text{h}/\text{Btu}$]	0.71
ELECTRICAL	ASTM D149	Dielectric Strength [V/mil]	80
	ASTM D150	Dielectric Constant	2.95
	ASTM D150	Dissipation Factor	0.019
	ASTM D257	Volume Resistivity [ohm·in]	> 1.2 x 10¹⁵
	ASTM D495	Arc Resistance, Median [s]	14

- Attractive aesthetics
- Resistance to the elements
- Low Maintenance
- Versatile style
- Lasting durability
- US-based production
- Proven performance
- True sustainability
- Easy installation

