PHYSICAL PROPERTIES

Survey/Boundary Markers

This specification covers the minimum requirements for the Ridan Boundary Marker. The Ridan Boundary Marker is made up of a proprietary combination of fiberglass and resin and is designed to be rigid enough to drive into hard soil conditions.

DESIGN

The Ridan Boundary Marker is designed with a point on the bottom and a rib on the back for increased strength when being driven into the ground. It can be installed in less than a minute by one person with a manual driver. It is 2.5" wide and designed for 2.375" decals.

PHYSICAL PROPERTIES

Mechanical Properties	ASTM	Units	Value
Tensile Stress, LW	D-638	psi	**75,000**
Compressive Stress, LW	D-695	psi	**50,000**
Flexural Strength	D-790	psi	**60,000**
Flexural Modulus	D-790	---------	**3,300,000**
Specific Gravity	D-792	---------	**1.8**
Barcol Hardness	D-2583	---------	**45**
24 Hour Water Absorption	D-570	% max	**0.3**
Density	D-792	lbs./in.3	**0.07**
Coefficient of Thermal Expansion, LW	D-696	10-6 in/in/°C	**8**
Glass % (Reinforcement)		---------	**60%**

MATERIAL

The Ridan Boundary Marker consists of continuous fiberglass strands with UV inhibitors in the resin pigment system. It is temperature resistant and will retain its physical properties in harsh environment from -80° F to +160° F.