

# Pop-up PolyDome™ Markers

featuring the **Magical Impact Sleeve**

The Pop-up PolyDome™ Marker maintains the functionality and integrity of the PolyDome Marker but reduces the damage caused by repeated impact of vehicles or contact with cattle. The Magical Impact Sleeve allows the PolyDome to bend from contact then spring back to its original position.

The Pop-up PolyDome shall be comprised of 3 components for easy installation: a 2" x 2" square galvanized post with pre-punched holes to anchor the PolyDome, a non-mechanical flexible joint, and a injection-molded PolyDome on top.

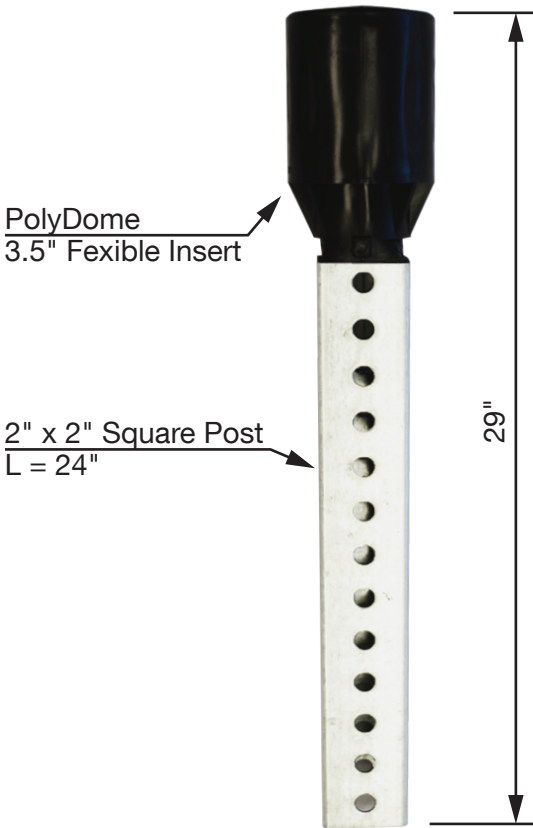
The PolyDome, as manufactured by ACP International, shall consist of a single piece, injection molded top portion (PolyDome), and a UV resistant Polyethylene Post for the bottom portion. The ACP Poly-Dome marker shall be made from Type 111 high density polyethylene with a marlex rating of 9018.

The PolyDome shall be corona-treated to accept printing and/or decal application. Printing shall be done through a silk screen process with UV Resistant enamel inks.

The lifespan of the PolyDome and post, assuming average UV and climate exposure, shall remain bold for at least 10 years in an outdoor environment. Physical properties of the PolyDome shall maintain 70% of the original properties throughout the lifespan of the marker.

The non-mechanical flexible insert join shall be a simple one-piece, non-metallic, molded square-to-round design, assuring long-life in severe corrosive environments.


During installation, the fully-assembled poly-dome marker shall be driven 2 feet into the ground to ensure maximum stability. When properly installed, the poly-dome will withstand at least one vehicle (minimum vehicle weight of 3,500 lbs) impact at 45MPH and return to an upright position within 10% of its original alignment within 30 seconds of time of impact. Marker can also withstand 70 foot-pounds of impact force a 32°F before and after UV conditioning for 2,000 hours.



**Magical Impact Sleeve**

IMPORTANT NOTICE: ACP International trusts that the user of the product has the most accurate knowledge of how the product might be most efficiently or safely utilized in any given application or environment.

ACP International trusts that the above technical data and product information is based on thorough and accurate testing of the product, but is not liable for any loss or damage to the product (or any other product, employee, or building from which the product might come into direct or indirect contact) resulting from an intentional or unintentional mishandling of the product.

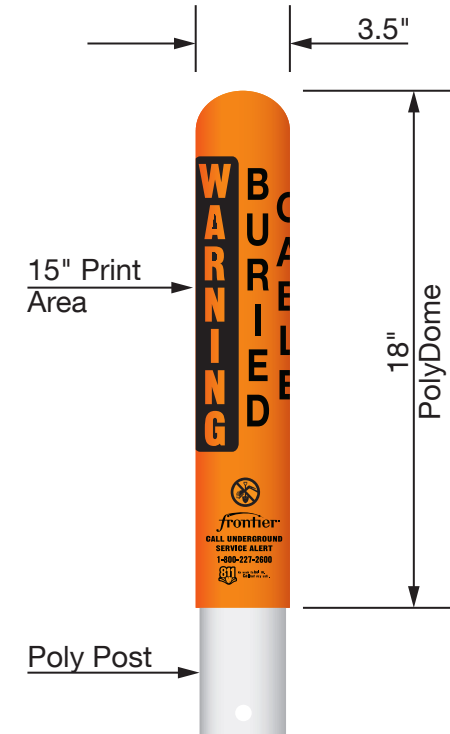
Engineering Specifications			
Pop-up PolyDome™ Markers			
	Drawn By:	Approved By:	Date:
	J.Y. Rollins	M. Prince	07/07/16

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ACP International PolyDome shall be available in heights of 6', 7', and 8' (as indicated in the part number). The PolyDome itself shall be 18" long and have a print area of 15". The opening of the PolyDome shall be 3 ½" diameter ID and have an ⅛" wall thickness, giving an overall OD of 3.75". The poly post shall fit snugly inside the PolyDome and also have ⅛" wall thickness.


The ACP International PolyDome shall have the following mechanical properties:

Property	Test Method (ASTM)	Typical Values
Density	D1505	0.952 g/cm <sup>3</sup>
Melt Index, 190/2.16	D1238	20.0 g/10 min
Tensile Strength at Yield, 2 in min, Type IV bar	D638	4200 PSI
Flexural Modulus, Tangent - 16:1 span:depth, 0.5 in/min	D790	1,200 MPa
ESCR, Condition B (100% Igepal), F50	D1693	<10 h
Durometer Hardness, Type D (Shore D)	63	D2240
Vicat Softening Temperature Loading 1, Rate A	D5125	122°C
Brittleness Temperature, Type A, Type 1 specimen	D746	<-75°C
Temperature Range	NEMA TS 2	-30 - 165F



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