

POLYKEN[®] Rockshield™ System

Polyken[®] Pipeline Coatings

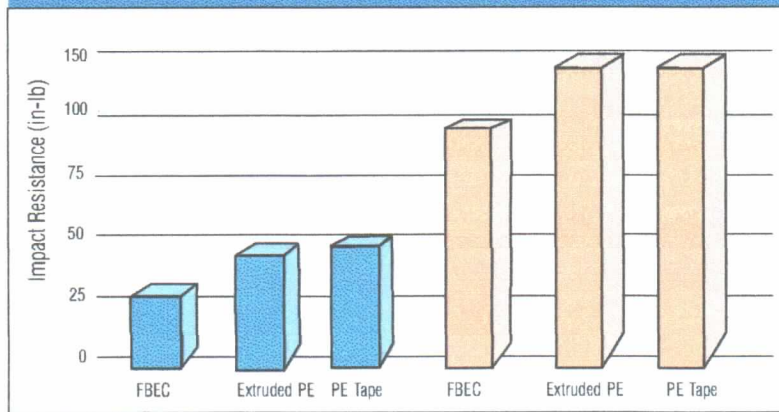
System Description

The Polyken ROCKSHIELD™ System consists of tough PE mesh padding that provides two levels of protection to the primary pipeline coating system during installation and backfill. The unique diamond shape mesh design will not interfere with the cathodic protection system. The ROCKSHIELD System offers two levels of mechanical protection. ROCKSHIELD 5000 is a polyethylene mesh for every day protection. ROCKSHIELD 5200 is a polyethylene mesh which is laminated to a polypropylene fabric padding for maximum protection.

Product Advantages

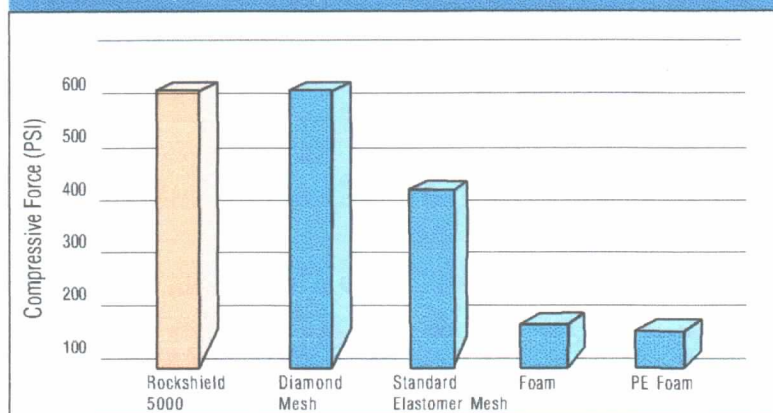
Reduces impact and penetration damage	Flexible over a wide range of temperatures
Reduces the need for select backfill and padding	Unique design will not damage primary coating system
	Two levels of protection to meet the toughest requirements

Impact Resistance (ASTM G-14)



◀ This data illustrates the significant increase in resistance to falling weight by overcoating with the Polyken Rockshield™ system. This means less holidays which translates into reduced cathodic protection requirements and potentially expensive repair cost.

Compressive Strength (ASTM D-1621)



◀ This graph illustrates the force required to compress the rockshield to 50% of original thickness. The Polyken Rockshield provides one of the highest levels of resistance to long-term penetration damage.

Physical Properties

Color: Black
Roll size: 5 ft wide x 100 ft long; other sizes upon request
Polymer: High density polyethylene
Padding: Polypropylene woven fabric
Mesh count: 3.1 diamonds/inch

Product Properties

	Test Methods	5000	5200
Thickness:	• ASTM D-1777	4 mm (160 mil)	6,6 mm (260 mils)
Weight:		0,784 kg/m ² (0.16 lb/ft ²)	1,18 kg/m ² (0.24 lb/ft ²)
Compressive Strength:	• ASTM D 1621	12,2 kg/cm ² (173.6 psi)	12,2 kg/cm ² (173.6 psi)
Impact Resistance:	• ASTM G-13 • ASTM G-14 FBEC Ext. PE Tape	>450 kg (>1000 lbs) 72 in-lb 120 in-lb 120 in-lb	>450 kg (>1000 lbs) 100 in-lb >168 in-lb >168 in-lb
Penetration Resistance:	• ASTM G-1	5%	5%
Temperature Range:			

• Normal in-ground service -30° to 150° F or -34° to 65° C (for 5000 and 5200)



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