



POLYKEN® #1600/1636

High Temperature Joint Wrap (121°C/250°F continuous)

Polyken® Pipeline Coatings

System Description

POLYKEN #1600/1636 is the joint wrap for a one-component coating system which, when applied to pipe in a "half-lap" configuration, provides up to 121°C (250°F) continuous operating temperature protection. Its unique properties include a polymeric alloy capable of with standing high temperatures, and an adhesive which bonds tenaciously to primed steel, resists soil stress, and can be used at temperatures at which most adhesives soften. These features are achieved in the unique two phase vulcanization adhesive system on Polyken #1600/1636. It is partially vulcanized when Polyken ships it. This allows for soil stress resistance. As the pipe is heated, the medium inside the pipe heats the adhesive, causing additional vulcanization, allowing for the increased strength required for performance under high temperature use. These unique new technologies, along with utilization expertise that Polyken has developed over the last 40+ years, are combined in Polyken #1600/1636 to yield continuous, long-term, high temperature performance.

Product Application

Polyken #1600/1636 is designed for use as a hand-wrap for joints, fittings, ells, tees and small diameter applications. It is particularly suitable for applications requiring high temperature up to 121°C (250°F) continuous use and where aggressive soil conditions require high shear strength. The compatible primers for #1600/1636 are #1619 or 1627.

Product Selection Guide

Normal Ambient Application Temperature	-34 to 49°C (-30 to 120°F)
Estimated Continuous Operating Temperature	-34 to 121°C (-30 to 250°F)

Product Properties

	Test Method	25	30
Tensile strength	ASTM D1000	25 lb/in (4.5 kg / 10 mm)	30 lb/in (5.4 kg / 10 mm)
Elongation	ASTM D1000	300%	400%
Adhesion to Backing	ASTM D1000	65 oz/in (0.7 kg/10 mm)	65 oz/in (0.7 kg/10 mm)
Adhesion to Primed Steel Pipe	ASTM D1000	300 oz/in (3.3 kg/10 mm)	300 oz/in (3.3 kg/10 mm)
Shear Resistance	ASTM D1000	10 ⁸ yd/sec (10 ⁸ M/sec)	10 ⁸ yd/sec (10 ⁸ M/sec)
Dielectric Strength	ASTM D149	26 Kv	26 Kv
Cathodic Disbondment	ASTM G-8 30d		0.2 sq. in (6 mm)
Impact	ASTM G-14	27 in lb (3.1 Nm)	33 in lb (3.8 Nm)
Penetration	ASTM G-17	@ 23°C 40% penetrated @ 121°C OC 53% penetrated	@ 23°C 40% penetrated @ 121°C OC 53% penetrated
Water Absorption %		0.08	0.08
WVTR gm/100 in ² /24 hr @ 21°C (70°F)		0.044	0.044

Product Construction

	ASTM D1000	25 mil (0.63 mm)	30 mil (0.76 mm)
Total Thickness			
Backing Thickness		14 mil (0.35 mm)	15 mil (0.38 mm)
Adhesive Thickness		11 mil (0.28 mm)	15 mil (0.38 mm)

Ordering info

Description

615557T	1600-25 BLK 4 X 100FT(C12)
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615501	1600-25 BLK 6 X 100FT(C8)
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615129	1600-25 BLK 6 X 200(C2)
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614896	1600-30 BLK 6 X 600(C3)
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614649	1636-30 BLK 18 X 600
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614545	1636-30 BLK 2 X 50
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614546	1636-30 BLK 4 X 50(C12)
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614514	1636-30 BLK 6 X 50FT POLY
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