



Technical Data Sheet - Expanded PTFE Joint Sealant

Rev. 12/6/04

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Description

Expanded PTFE Joint Sealant is a high performance gasket material made of 100% PTFE. It is a form-in-place gasket that conforms to almost any sealing surface. It is capable of withstanding a wide range of pressure, temperature and chemical environments. This product utilizes a double-coated tissue Pressure-Sensitive Adhesive to aid in installation.

Technical Data for PTFE Substrate

PTFE Joint Sealant is manufactured from pure PTFE (Polytetrafluoroethylene) resin. Excluding the Pressure-Sensitive Adhesive and Release Liner, this product contains no other ingredients, fillers or additives.

General Specifications

Pressure Range	Full Vacuum to 3,000 psi
Temperature Range	-450°F to 525°F continuous to 600°F intermittent
Maximum P x T (psi x deg F)	350,000
pH Range	0-14 (resistant to all common chemicals, except molten alkali metals and elemental fluorine)
FDA	Compliant with FDA 21 CFR 177.1550 which covers PTFE resins for contact with food
Stability	No Age Deterioration Unlimited Shelf Life

Independent Laboratory Testing

Compressibility (ASTM F-36)	64-69%
Creep Relaxation (ASTM F-38)	38-40%

In-House Testing

Pressure Test	5,500 psi hydraulic pressure at Room Temperature for 1,000 hours without leakage (1/4" Joint Sealant in flat face ANSI flange)
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Technical Data for Pressure Sensitive Adhesive and Release Liner

Our Pressure Sensitive Adhesive is a double coated reinforced tissue tape that is coated on both sides with a high tack dead load synthetic-based adhesive system.

Our standard line of Joint Sealant utilizes Product 818 (Paper backing) for sizes 1/8"-3/8", and Product 530 (polypropylene backing) for 1/2"-1". As an option, Product 818 is available for the entire range of Joint Sealant sizes.

Specifications

	Product 818 (1/8"-3/8" JS)	Product 530 (1/2"-1" JS)
Backing Tissue (in.)	0.001" thick	0.001" thick
Adhesive	Synthetic copolymer, permanent type	Synthetic copolymer, permanent type
Release Liner	50 lb., 3.2 mil paper; semi-bleached, polysilicone coating	45 lb., 3 mil polypropylene, silicone-coated
Thickness, Release Liner (in.)	0.0032	0.003
Thickness, Tape (in.)	0.0055	0.0055
Adhesion (ozs per inch of width)	110	120
Holding Power (min.)	5,000+	5,000+
Tack (in.)	1.5	1
Tensile Strength (lb./sq-in)	5	5
Elongation (%)	4	4
Application Temperature (F)	60-120	60-120
Temperature Range (F)	0-120	0-120
Lift Edge	No	Yes
FDA	Pressure Sensitive Adhesive complies with the Federal Food, Drug and Cosmetics Act, Title 21, Subpart B, Paragraph 175.105 which covers the use of pressure sensitive adhesive tapes for food.	