

Expanded PTFE Joint Sealant - Technical Data (rev. 7/30/03)

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-plastic liner pressure sensitive tape to aid in installation.

Technical Data for PTFE Substrate

PTFE Joint Sealant is manufactured from pure PTFE (Polytetrafluoroethylene) resin. Excluding the double-coated tissue liner discussed below, this product contains no other ingredients, fillers or additives.

General Specifications

Pressure Range	Full Vacuum to 3,000 psi
Temperature Range	-450 deg F to 600 deg F continuous
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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Expanded PTFE Joint Sealant - Technical Data (cont'd)

Technical Data for Pressure Sensitive Adhesive and Release Liner

Our Pressure Sensitive Adhesive is a double coated thin reinforced tissue tape made with a 100% plastic film release liner. It is a lightweight tissue coated on both sides with a high tack dead load synthetic based adhesive system.

Specifications

Backing Tissue (in):	.001" thick
Adhesive:	Synthetic copolymer, permanent type
Release Liner:	45 lb., 3 mil polypropylene, silicone type Color: White
Thickness, Release Liner (in):	.003
Thickness, Tape (in):	.0055
Adhesion (ozs per inch of width):	120
Holding Power (min):	5,000+
Tack (in):	1
Tensile Strength (lb/in ²):	5
Elongation (%)	4
Application Temperature (deg F):	60-120
Temperature Range (deg F):	0-120
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.