

# TUNDRA FOAM

TECHNICAL  
DATA FORM

103

## OPEN CELL POLYURETHANE BACKER ROD FOR HOT AND COLD SEALANT APPLICATIONS

### Basic Use

**Tundra Foam** is an ideal non-gassing backup material which is inserted into construction and pavement joints to:

- Control sealant and caulking depth
- Create a backstop to allow proper sealant tooling and configuration
- Allow proper sealant airing and yield a proper bond breaker.

Product is ideal for non-uniform joint sizes.

### Specific Uses

Commonly used in expansion and contraction joints, window glazing, curtain wall construction partitions, precast assemblies and copings, parking decks, bridge construction, etc.

### Compatibility

**Tundra Foam** is basically an inert material and therefore compatible both physically and chemically with virtually all known hot pour and cold applied sealant including silicone and rubber asphalt.

### Composition and Materials

**Tundra Foam** is a fabricated round, open cell polyurethane foam material. It is highly flexible and compressible for easy application. It is available in a wide variety of sizes each capable of fitting a number of differing joint sizes (Table 1)

### Type O - Open Cell

### Color

**Tundra Foam** is available in black color. Black is a neutral rod color, allows a visual aid to ensure enough sealant is used, is ideal for window glazing applications.

Table 1: Stock Sizes Available

Diameter	Sleeves / PK	Bags / Sleeve	Feet per bag	Feet per Sleeve	Feet / 6PK	Metric Diameter	Meters / Sleeve
3/8"	6	4	750	3000	<b>18000</b>	9 mm	914
5/8"	6	4	500	2000	<b>12000</b>	15 mm	609
7/8"	6	2	525	1050	<b>6300</b>	22 mm	320
1-1/8"	6	2	300	600	<b>3600</b>	28 mm	182
1-1/2"	6	2	175	350	<b>2100</b>	38 mm	106
2"	6	2	100	200	<b>1200</b>	50 mm	60

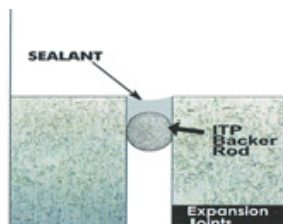
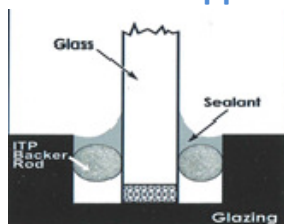
### Shipping Information

Each 6 pk measures approximately 24" x 24" x 21" and have a girth of approximately 108". Some carriers have maximum girth restrictions.

Typically, 1 skid will hold 8 6packs.

1 - 6 packs weighs 60 lbs. (27kgs)

### Common Application of Tundra Foam



### Packaging



## Technical Data

Tundra Foam will resist oil, gasoline and most solvents. This material is odorless, will not stain and will not adversely adhere to sealant and caulking materials (Refer to Table 2 for typical physical properties)

## Installation

The joint depth must be great enough to allow for the proper installation of the Tundra Foam and the hot or cold sealant or caulking material. Joint walls must be as smooth and even as possible and be free of any loose residues or foreign materials. Joints should also be dry and frost free. With a convenient tool or by hand, insert Tundra Foam into joint at a level recommended by the sealant manufacturer. Cold applied sealants generally recommend that the depth of the joint after the backer rod is installed be one half the width. In hot pour applications, it is generally recommended the depth of the joint be a 1:1 ratio in terms of backer rod to sealant.

## Purchasing Advantage

ITP offers the widest product range of any North American manufacturer (see Table 4). For prompt delivery, top service and convenient one-stop shopping for all your Backer Rod needs contact ITP for your local ITP distributor today.

## Technical Assistance

Industrial Thermo Polymers has qualified representatives available to assist users of the various Backer Rod materials referenced herein. Please contact your local ITP Distributor or ITP should assistance be required.

Table 2: Physical Property Analysis

Property	Value	Test Method
Density (nominal)	1.7 lbs/cu.ft	ASTM D1622
Tensile Strength	25 lbs maximum	ASTM D3575
Outgassing (Number of bubbles)	0	ASTM C1253
Elongation	75% min	ASTM D3574
Compression Deflection psi (kPa)	1.4	ASTM D5249
Compression Recovery, %, min	>98	ASTM D5249
Temperature Range	-60°F to 500°F	-
Compression Set @ 90%	15% (max)	ASTM C3574

### Table 3: Tundra Advantage

- One size fits many joints, though 25 to 50% is a good basis for a tight seal.
- Non gassing, damage proof
- Compressed for economical shipping
- Highly flexible and easy to install
- Premium quality polyurethane, uniform roundness and highest compression rating
- Can be combined with other ITP products

### Other ITP Backup Materials

Standard Closed Cell Polyethylene Foam  
1/4" - 6"

Soft Type Bicellular Polyethylene Foam Backer Rod, sizes: 3/8" - 4"

Hot Rod XL (Hot Pour) Closed Cell Backer Rod sizes 3/8" to 2"

Bagged Backer Rod in Standard and Soft Type Pony Paks Spool-less boxes of Standard and Soft

Also available from Industrial Thermo Polymers

Pipe Insulation | Noodles (water toys) | Custom Profiles

### GUARANTEE / WARRANTY

Industrial Thermo Polymers Limited believes the information and recommendations herein to be accurate and reliable and the products are reasonably fit for the application mentioned. However, as uses, conditions and application methods are not within our control, ITP does not guarantee nor warrant these products nor results from the use of these products or information given. It is therefore the responsibility of the buyer to determine the suitability of these products in applications intended and determine the appropriateness of the product. Size and Lengths per spool are those at times of packaging and may vary with climatic condition after manufacture.

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