

Insulflow Pour 900 HFO | Pour-in-Place Foam

Product Description

Insulflow Pour 900 HFO is a low density rigid-density, two-component polyurethane pour foam. It is HFO based and complies with Montreal Protocol blowing agent regulations. This system can be used as cavity filling foam where excellent thermal insulation and mechanical properties are required.

Recommended Uses

- Cold chain applications - Insulated panels and cavities
- General cavity fill

Storage

Store in a dry location between 10-32°C (50-90°F). Keep drums tightly sealed when not in use.

Mix Ratio

Attribute	Isocyanate	Resin
Mixing Ratio (weight)	100	100
Mixing Ratio (volume)	98	100

Processing Parameters

Material Temperature	21-32°C (70-90°F)
Mould Temperature	38-52°C (100-125°F)

Reactivity Profile

Hand Mix at 25°C (78°F), 1500 rpms

Attribute	Hand Mix
Cream Time	40-50 sec.
Gel Time	110-130 sec.
Tack Free Time	180-220 sec.
Free Rise Density	1.7-1.9 lbs/ft ³

Machine Mix 29°-32°C (85-90°F), 130-150 bar

Attribute	Machine Mix
Cream Time	8-12 sec.
Gel Time	35-45 sec.
Tack Free Time	50-60 sec.

Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Elastochem Representative.

Typical Properties of Components

Attribute	Isocyanate	Resin
Colour	Brown	Clear/Yellow
Viscosity @ 25°C	250 cps	400-500 cps
Specific Gravity	1.23	1.21
Flash Point, PMCC	213°C (415°F)	100°C (212°F)
Shelf Life	12 months	6 months
Storage Temperature	10-32°C (50-90°F)	10-32°C (50-90°F)

Typical Physical Properties

Attribute	Test	Resin
Core Density	D-1622	2.05 lb/ft ³
Compressive Strength @ 10% (Perpendicular)	D-1621	18.6 lb/in ²
Compressive Strength @ 10% (Parallel)	D-1621	18.2 lb/in ²
Dimensional Stability @ -29°C (-20°F) @ 70°C (158°F) @ 70°C (158°F)/ 100% Rel. Humidity	ASTM D-2126	-0.6% change -0.4% change 0.0% change
Thermal Resistance @ 12.8°C	ASTM C-518	7.53 hr-ft ² -°F/BTU-in
Thermal Resistance @ -7°C	ASTM C-518	8.35 hr-ft ² -°F/BTU-in
Shear Strength	C-273	26.4 lb/in ²
Tensile Strength	D-1623	38.6 lb/in ²
Water Absorption	D-2842	0.05 lb/ft ² 3.12 % by volume
Surface Burning Characteristics (with skin)	CAN/ULC-S102	Flame Spread 0 Smoke 150

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Elastochem Specialty Chemicals Inc.
37 Easton Road Brantford, ON N3P 1J4
1-877-787-2436
www.elastochem.com