

TECHNICAL DATA SHEET POLYURETHANE FOAM SYSTEM

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POLARFOAM PF-6366-0 POUR-IN-PLACE SYSTEM

Polarfoam PF-6366-0 is a rigid two component urethane foam system especially formulated for pour-in-place applications. This system blown without HCFC 141b, is designed for continuous panel foaming process and mixes well using a high or low pressure machine.

Applications:

- Insulating panels

Important:

It is important to monitor the in-place density of the foam as stated in the processing recommendations (see reverse page). A lower density will result in poor physical properties. Furthermore, proper temperature (110-130°F) of the substrates is critical in order to obtain a good adhesion of the foam to the substrate. It is the user's responsibility to test the product to ensure it performs to their expectations.

LIQUID COMPONENT PROPERTIES

Properties	Isocyanate	Resin
Colour	Brown	Yellowish
Viscosity @ 25°C (cps)	150-350	550-850
Specific gravity	1.20-1.24	1.11-1.15
Mixing ratio (weight)	120	100

PROCESSING RECOMMENDATIONS

Type of Machine	A high or a low pressure machine	
Isocyanate Temperature	20-23°C	68-73°F
Resin Temperature:	20-23°C	68-73°F
Mold or Panel Temperature:	43-54°C	110-130°F
Minimum In-Place Density	40 Kg/m ³	2.5 lb/ft ³
Recommended		

POLARFOAM PF-6366-0**REACTIVITY PROFILE**

	Handmix*	Machine**
Cream Time (sec.)	6-10	3-7
Gel Time (sec.)	37-47	25-34
Tack Free Time (sec.)	55-75	40-50
Free Rise Density (lb/ft ³)	2.70-2.95	2.50-2.70

*Mixer 2 inches @ 2500 RPM for 10 seconds, liquid components at 20°C.

**High pressure machine (2500 psi), liquid components @ 23°C

PHYSICAL PROPERTIES

Description	Results	ASTM
Density (In-Place)	40 kg/m ³ 2.50 lb/ft ³	D 1622
Thermal resistance R (2 in. thick panel, 2 days @ 23°C)	1.16 m ² .°C/W 76.6 ft ² .h.°F/btu.in.	C 518
Thermal conductivity K (2 in. thick panel, 2 days @ 23°C)	0.862 W / m ² .°C 0.152 Btu.in/ft ² .h.°F	C 518
Thermal resistance R (2 in. thick panel, 90 days @ 23°C)	1.13 m ² .°C/W 6.4 ft ² .h.°F/btu.in	C 518
Thermal conductivity K (2 in. thick panel, 90 days @ 23°C)	0.885 W/m ² .°C 0.156 Btu.in/ft ² .h.°F	C 518
Compressive strength (parallel)	201 kPa 29.1 psi	D 1621
Dimensional stability (% vol. change @ 28 days) 80°C, ambient relative humidity 70°C, 90% relative humidity -30°C, ambient relative humidity	0.00 + 1.16 - 0.40	D 2126
Water absorption (% Volume)	<3.0	D 2842

These physical properties were obtained with the processing recommendations listed above.

The information herein is to assist customers in determining whether our products are suitable for their applications. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute a warranty, express or implied, including any warranty or merchantability or fitness, nor is protection from any law patent inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials. Polyurethane foam is combustible. It is recommended that the user read the material safety data sheets on the liquid chemicals before using the products.

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