

**POLARFOAM PF-7300 SOYA**  
**SPRAY POLYURETHANE FOAM**  
**NEW GENERATION ZERO ODS**

**Polarfoam PF-7300 Soya** is a two component closed cell spray-applied rigid polyurethane foam system, peach in colour, formulated to exceed the requirements of CAN/JLC S705.1-01 (including amendment 1 & 2). **Polarfoam PF-7300 Soya** is applied exclusively by licensed installers and contractors under the application standard CAN/ULC S705.2. **Polarfoam PF-7300 Soya** is evaluated by an independent recognized laboratory and meets all the requirements of the National Building codes of Canada 1995. This new ecological insulation is made from **renewable vegetable oils** and recycled plastic bottles as well as a **Zero Ozone Depletion Substance (ZERO ODS) content**.

**PHYSICAL PROPERTIES**

Method	Description	Value	
ASTM D1622	Core Density	34-37 Kg/m <sup>3</sup>	2.1-2.3 lb/ft <sup>3</sup>
ASTM C518	Initial Thermal Resistance	1.25 RSI/25 mm	R 7 / 1"
	Thermal Resistance – 180 days @ 23°C	1.15 RSI/25 mm	R 7 / 1"
CAN/ULC S 770	(LTTR) Long Term Thermal Resistance Thickness – 100 mm	4.23 RSI	R 24
	- 75 mm	3.10 RSI	R 18
	- 50 mm	2.03 RSI	R 12
	- 25 mm	1.02 RSI	R 6
	CAN/ULC S705.1-01 (amendment 1 & 2)	Classification	Type 2
ASTM D2856	Open Cell Content	In Process	
ASTM D 1621	Compressive Strength (10%)	195 kPa	28.3 psi
ASTM D1623	Tensile Strength	355 kPa	51.5 psi
ASTM D2842	Volumetric Water Absorption %	0.8%	
ASTM E96	Water Vapour Permeance (core), 50 mm	58 ng/Pa.s.m <sup>2</sup>	1 Perm
CCMC 07273	Air Barrier Material, 25 mm	0.00004 L/s/m <sup>2</sup> @ 75 Pa	
CAN/ULC S102	Flame Spread Classification FSC-1 (Tunnel)	32	
CAN/ULC S127	Flame Spread Classification FSC-2 (Corner) Smoke developed SDI	200 396	
ASTM D2126	Dimensional Stability, 28 days (% Volume Change, sample without skin)		
	-20°C	-0.03%	
	80°C	+2.9%	
	70°C, 97% R.H.	+9.8%	
CAN/ULC S774	VOC Emissions from polyurethane foam	Conform	24 hrs.
ASTM E-1331	Colour	Peach	
ASTM C 1338	Fungi Resistance, 28 days	No Fungal Growth	

**POLARFOAM RIGID AND FLEXIBLE POLYURETHANE FOAM, COATINGS, FOMO PRODUCTS  
GRACO, GUSMER, GLASCRAFT, EQUIPMENT SALES AND SERVICE**

**POLARFOAM PF-7300 SOYA  
LIQUID COMPONENTS PROPERTIES**

Property	Isocyanate	Resin
Colour	Brown	Peach
Viscosity @ 25°C	150-350 cps	150-350 cps
Specific gravity	1.20-1.24	1.20-1.24
Shelf life*	12 months	6 months
Mixing ratio (volume)	100	100
Vapour pressure @ 25°C	10 <sup>-7</sup> psi	7-9 psi

\*See MSDS for more information

**MACHINE PROCESSING PARAMETERS USED**

Type of machine	Gusmer H20/35, D Gun, mix chamber #62
Components Iso & Resin Temperature	38°C (100°F)
Components Iso & Resin Pressure	5860-6900 kPa (850-1000psi)
Ambient temperature	23° (78°F)
Thickness per pass	30 mm (1 ¼ inches)
Number of passes	2
Substrate	Polyethylene Board

**REACTIVITY PROFILE**

Cream Time	Gel Time	Tack Free Time	End of Rise
0-1 sec.	2 sec.	4-5 sec.	4 sec.

**RECOMMENDED PROCESSING CONDITIONS**

Mixing ratio Iso/Resin	1/1
Mixing temperature	38°C (100°F) @ 49°C (120°F)
Mixing pressure (minimum)	5516 kPa (800 psi)
Substrate & Ambient temperature	> -10°C (14°F)
Curing temperature	> -10°C (14°F)
Maximum thickness per pass	2 inches

**GENERAL INFORMATION**

It is recommended that the foam be covered with an approved thermal barrier in accordance to the local and national building codes when used in buildings and a protective coating when used outside. This product should not be used when the continuous service temperature of the substrate is outside the range of -60°C to 82°C.

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 of merchantability or fitness, nor is protection from any law or patent inferred. All patent rights are reserved. The foam product is combustible and must be covered by an approved thermal barrier. The exclusive remedy for all proven claims is replacement of our materials.  
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