



Technical Product Data

Urethane Specialties

ZIFOAMPOR® P ZF390R RESIN/ZIFOAMPOR® P ZF01U ISOCYANATE RIGID URETHANE FOAM SYSTEM

DESCRIPTION

ZIFOAMPOR® P ZF390R Resin/ZIFOAMPOR® P ZF01U Isocyanate is a two-component polymeric MDI based system utilizing water and HFC-245fa as blowing agents.

ZIFOAMPOR® P ZF390R RESIN COMPONENT

Appearance	Amber liquid
Odor	Amine
Density, @ 55°F	9.06 lbs/gal
Viscosity, @ 73°F	360 cps
Flash Point, ASTM 3278-89	>200°F
HFC-245fa, % Resin	7.6%

ZIFOAMPOR® P ZF01U ISOCYANATE COMPONENT

Appearance	Dark brown liquid
Odor	Slight Amine
Density, @77°F	10.2 lbs/gal
Viscosity, @77°F	200 cps
Flash Point	>400°F
Vapor Pressure, at 20°C	0.00016 mm Hg

APPLICATION

Mix Ratio: Parts by weight 92 Resin/100 Isocyanate

Foam Reactivity & Density

	Handmix	High-Pressure
Jiffy Mixer RPM	1720	--
Component Pressures, Resin/Isocyanate	--	1500psi/1500psi
Component Temps, Resin/Isocyanate	55°F / 70°F	70°F / 70°F
Mix time, seconds	8	--
Cream time, seconds	24	5
Gel time, seconds	100	60
Tack Free time, seconds	210	140
Free Rise Density, #10 Cup, lb/ft ³	2.0	2.0

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"Warning" These products can be used to prepare a variety of polyurethane products. Polyurethanes are organic materials and must be considered combustible.

PCS Corporation
16 Technology Dr
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(714) 273-1380

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TYPICAL PHYSICAL PROPERTIES

ASTM

Molded Panel

Core Density, pcf	2.6	D-1622
Parallel:		
Compressive Strength @10% deflection, psi	43	D-1621
Compressive Modulus, psi	1086	D-1621
Perpendicular:		
Compressive Strength @10% deflection, psi	28	D-1621
Compressive Modulus, psi	669	D-1621
Tensile Strength, psi	52	D-1623
Elongation, %	11	D-1623
Tensile Modulus, psi	661	D-1623
Flexural Strength, psi	51	D-790
Flexural Modulus, psi	1148	D-790
Water absorption, lbs./sq. f	0.032	D-2842
Water absorption, %	1.8	D-2842
Closed Cells, % (uncorrected)	88	C-6226
K Factor, BTU-IN/HR-FT ² -°F		
Initial	0.154	C-518
UL® 94 Flame Class (File E112987)	HBF	

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Dimensional Stability, % Volume Change		ASTM
158°F/100% RH 28 days	-1.0	D-2126
200°F 28 days	-1.0	D-2126
-20°F 28 days	-0.5	D-2126

CERTIFICATION

US COAST GUARD: (CGD 75- 168) Flotation Material

Rigid polyurethane samples prepared from ZIFOAMPOR® P 15390 chemicals have been tested at an independent laboratory. Molded samples have passed the U.S. Coast Guard immersion tests (CGD 75-168), and meet or exceed Performance criteria set out in D.O.T. – Coast Guard – Flotation Materials, Par. 183.114, Federal Regulations Volume 43, No. 233, 1/5/2005

US COAST GUARD: (CITE: 33CFR183.516) Encase Fuel Tanks. Rigid polyurethane foam samples has been tested by an independent laboratory. Molded samples have passed the ASTM D-471 and Military specification MIL P-21929B sections of 33CFR183.516. 12/23/2005.

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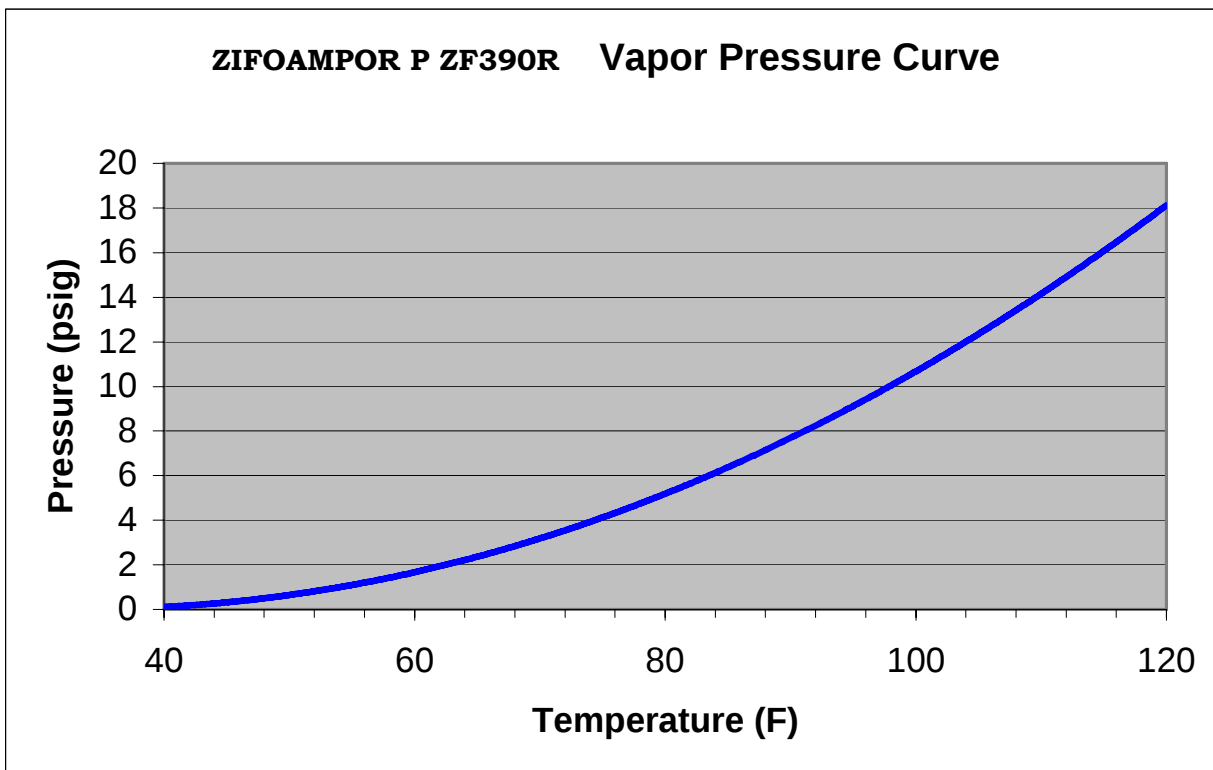
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