



# Technical Product Data

Urethane Specialties

## **ELASTOPOR® P 15390R RESIN/ELASTOPOR® P 1001U ISOCYANATE RIGID URETHANE FOAM SYSTEM**

### **DESCRIPTION**

ELASTOPOR® P 15390R Resin/ELASTOPOR® P 1001U Isocyanate is a two-component polymeric MDI based system utilizing water and HFC-245fa as blowing agents.

### **ELASTOPOR® P 15390R 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%

### **ELASTOPOR® P 1001U 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 <sup>3</sup>	2.0	2.0



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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 <sup>2</sup> -°F Initial	0.154	C-518
UL® 94 Flame Class (File E112987)	HBF	

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## **ELASTOPOR® P 15390R RESIN/ELASTOPOR® P 1001U ISOCYANATE RIGID URETHANE FOAM SYSTEM**

<b>Dimensional Stability, % Volume Change</b>		<b>ASTM</b>
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 Elastopor® 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.

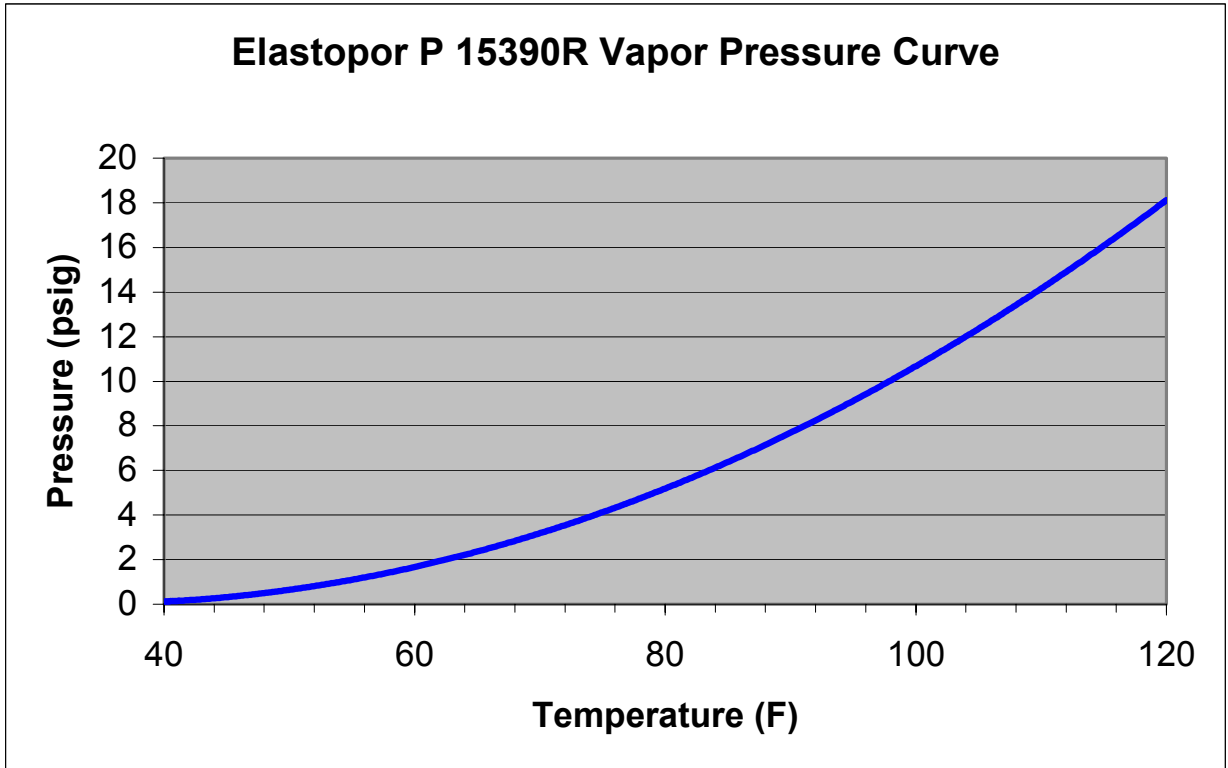
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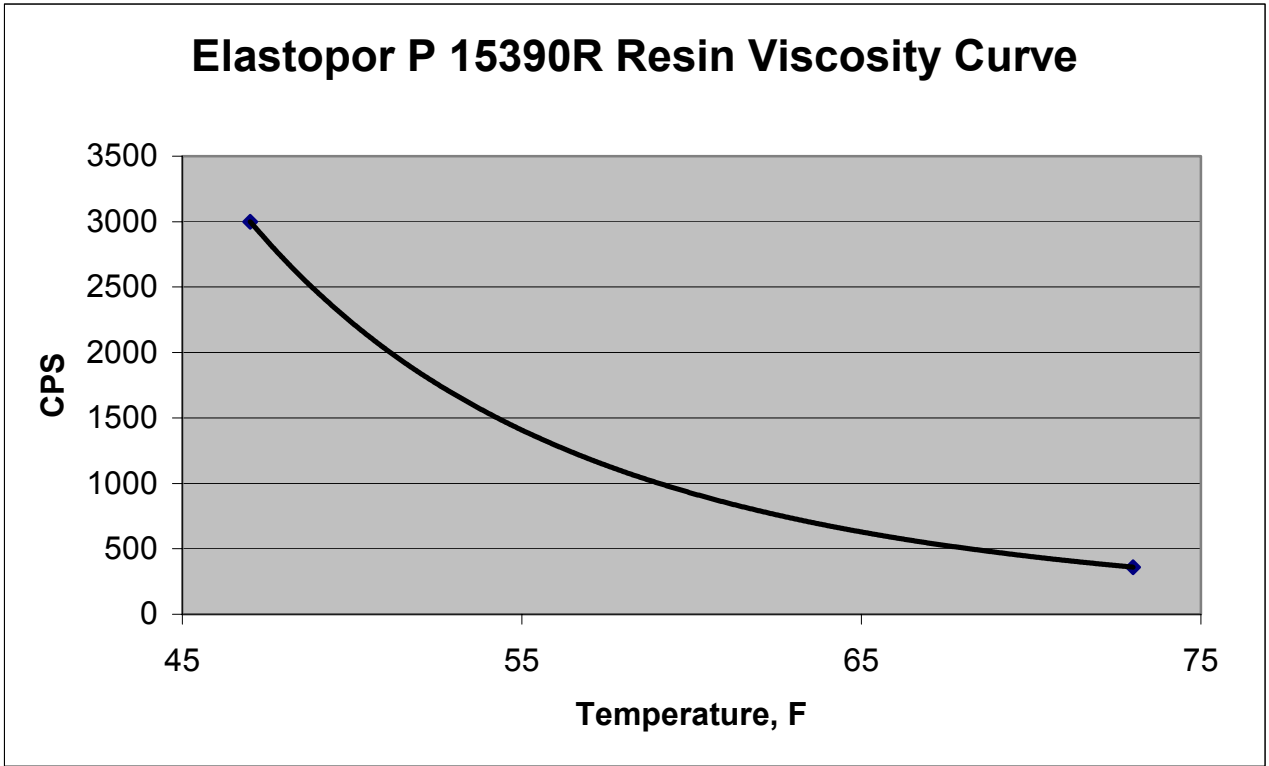
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