



Product Bulletin

JFOAM™ BH-610

Product Description

JFoam™ BH-610 is for use in potting electronic units, aircraft and missile control surfaces, insulation, and structural panels. BH-610 is designed primarily to operate in the 300-400°F temperature range and is not to be used where cross section is greater than three inches. BH-610 has a large and irregular cell structure and a viscous pour point.

Typical Chemical Properties

Viscosity

	<u>70°F</u>	<u>80°F</u>	<u>90°F</u>	<u>100°F</u>	<u>110°F</u>	<u>120°F</u>
R Component, cps	475,000	275,000	160,000	90,000	53,000	32,000
T Component, cps	4,500	3,400	2,600	2,150	1,850	1,725

Mixing Ratio (% by weight)

R Component Water Blown Polyol	49
T Component TDI Prepolymer	51

Typical Physical Properties

	<u>72°F</u>	<u>285°F</u>
Compressive Strength, psi	290	60
Shear Strength, psi.....	180	75
Tensile Strength, psi.....	275	125
Modulus of Rigidity, psi	4,500	2,300
Modulus of Elasticity, psi.....	10,500	--
Density, pcf.....		10.0
K-Factor, BTU in/hr. ft ² °F		0.30
Dielectric Constant @ 9,375 MHz		1.2
Loss Tangent @ 9,375 MHz		3.0 x 10 ⁻³
Maximum operating temperature, °F.....		400°

Processing Parameters

Blend T component into R component. Mix for about two minutes if spatula agitation is used, or 30 seconds if an impeller type mixing blade and drill motor (1,800 rpm) is used. Pour at perception of exothermic heat and slight decrease in viscosity. When foaming action has ceased, post cure immediately (One hour at 350°F, then by 25°F increments for one half hour per each increment until the maximum operating temperature plus 25°F is reached.) Cool part to 110-130°F before stripping from mold

Storage

Avoid moisture contamination during storage, handling, and processing. Store the polyol and isocyanate components from 65°F to 85°F. Do not expose isocyanate component to lower temperatures as freezing may occur.

Shelf Life

The shelf life is 12 months if stored in original unopened containers.

Health and Safety Information

Safety Data Sheets are available which provide 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 the risks involved, proper use, and handling.

All polyurethane foam burns in varying degrees, which in turn liberates toxic gases; the foam should be evaluated in its final form for compliance to existing standards in your industry. Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information.

J6 Polymers LLC
601 Derby Line Rd
Genoa, IL 60135 USA
Tel: (815) 517-1173
Fax: (815) 517-0781
customerservice@j6polymers.com
www.J6polymers.com

