



Product Bulletin

Product Description

JFOAM™ C-614

JFoam™ C-614 is for use in molded propeller fairings, potting electronic units, aircraft and missile control surfaces, insulation, and structural panels. C-614 is designed for large cross section pours. C-614 has a small, uniform cell structure and a slightly 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	610,000	320,000	170,000	90,000	48,000	25,500
T Component, cps	2,950	1,950	1,375	1,075	1,000	1,000

Mixing Ratio (% by weight)

R Component Water Blown Polyol	59
T Component TDI Prepolymer	41

Typical Physical Properties

Density, pcf.....	14.0
Compressive Strength, psi	800
Shear Strength, psi.....	565
Tensile Strength, psi.....	660
K-Factor, BTU in/hr. ft ² °F.....	0.29
Stress at 2% Strain, psi.....	450
Modulus of Rigidity, psi	11,500
Modulus of Elasticity, psi.....	25,000
Water Absorption, 10'head, 24 hours, %.....	3.0
Dielectric Constant @ 9,375 MHz	1.15
Loss Tangent @ 9,375 MHz	2.0 x 10 ⁻³
Maximum operating temperature, °F.....	250

Processing Parameters

Blend T component into R component. Mix for about two minutes. Pour at perception of exothermic heat and slight decrease of viscosity. When foaming action has ceased, post cure as recommended. (Maximum physical properties require two hour cure at 200°F. Lower temperatures or shorter periods will develop slightly less than the maximum properties.) 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.

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