J6 Polymers LLC

Product Bulletin

JFOAM™ G-308

Product Description

JFoam™ G-308 is used in structural panels, insulation, buoyancy, electronic potting and applications requiring high continuous service temperatures. Flammability modification is available and is identified as "modified."

Typical Chemical Properties

	T Component Polymeric TDI	R Component Polyol Blend
Viscosity at 77°F (25°C), cps	2,000	24,000
G-308 Mixing Ratio (% by weight)		
R Component Water Blown Polyol	39	
T Component TDI Prepolymer	61	
G-308 Modified Mixing Ratio (% by weight)		
R Component Water Blown Polyol	30	
T Component TDI Prepolymer	70	

Typical Physical Properties

Density, pcf	7.5
Compressive Strength, 10% deflection, ASTM D-1621	
Parallel, psi	200
Perpendicular, psi	165
Water Immersion, 10' Head @1 Week, lbs/ft^2	0.03
K-Factor, BTU in/hr. ft^2 °F	0.26
Coefficient of Linear Thermal Expansion (from 60-200°F), in in/°F	4x10^{-5}
Closed Cell Content, %	95
Recommended Maximum Continuous Service Temp, °F	300

Processing Parameters

Blend T component into R component. Mix for about one minute if spatula mixed and 20 seconds if high speed drill motor (3,500 rpm) is used. Pour into a mold which has been conditioned to 110-125°F. Pack a minimum of 15% free rise density. Postcure part in mold at 150°F for one hour or 25°F in excess of the maximum expected service temperature. Cool mold below 125 °F before demolding parts. If post curing is not possible, allow part to remain in mold 18-24 hours or until friability disappears.

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 6 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 handing.

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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