J6 Polymers LLC

Product Bulletin

JFOAM™ BX-650

Product Description

JFoam™ BX-650 is a two component rigid polyurethane foam system designed for structural void filling applications. This system is well suited for RTM applications where high compressive and tensile strength properties are required during post curing of composite part. BX-650 has a recommended service temperature of 225°F.

Typical Component Properties

	T Component Polymeric MDI	R Component Polyol Blend
Viscosity at 77°F (25°C), cps	200	1,600
Mixing Ratio (% by weight)	65	35

Typical Physical Properties

Hand Mix Reactivity at 77°F (25°C)
- Cream Time, seconds 80
- String Time, seconds 155
- Tack Free Time, seconds 185
- Specific Gravity at 77°F (25°C) 1.094

Density, ASTM D-1622
- Free Rise, #10 cup, pcf 6.2
- Molded, overall, pcf ..... 10 to 12
- Core, pcf 11.3

Compressive Strength, ASTM D-1621
- Parallel, 77°F, psi 340
- Parallel, 350°F, psi 120

Compressive, Modulus, 350°F, ASTM D-1621, psi 2,870

Tensile Strength, 350°F, ASTM C-273, psi 42

Processing Parameters

Condition both components to 25°C. Blend T component into R component. Mix for approximately 15 seconds, larger quantities will require extended mix times, using a high sheer mixer that is driven by a 3500 rpm drill motor. Pour mixed components into mold that is preheated to 100° to 115°F. Maintain a minimum pack factor of 15% over free rise density. For optimum performance post cure part at 25°F above maximum service temperature for one hour. Allow mold to cool to room temperature prior to demolding part. Material will cure at 100°F with maximum physical properties being obtained in 24 hours.

While the above technical information is based on results of actual tests conducted by J6 Polymers LLC., it should only be used as a guideline for typical chemical and physical properties.

The user must test and qualify this product under their own particular processing conditions. Final determination of conformance is the responsibility of the user.

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 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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