

J6 Polymers LLC



Product Bulletin

JFOAM™ BX-735

Product Description

JFoam™ BX-735 is a two component water-blown polyurethane foam system which can be used for structural core applications and specialized void filling. BX-735 passes all requirements of MIL-F-83671 Class1.

Typical Component Properties

	T Component Polymeric MDI	R Component Polyol Blend
Viscosity at 77°F (25°C), cps	200	7,000
Specific Gravity @ 25°C	1.24	1.10
Mixing Ratio (% by weight)	57	43

Typical Physical Properties

Hand Mix Reactivity @ 25°C					
Cream Time, seconds	75				
Rise Time, seconds	155				
Gel Time, seconds	165				
Tack Free Time, seconds	185				
Density, ASTM D-1622					
Nominal, pcf	10				
Molded, Overall, pcf	21				
Core, pcf	19				
Compressive Strength, ASTM D-1621					
Parallel, psi	75°F	150°F	200°F	250°F	300°F
Perpendicular, psi	868	138	38	28	25
Compressive Modulus, ASTM D-1621					
Parallel, psi	925	122	34	26	24
Perpendicular, psi	11,651	2,387	412	271	271
Shear Strength, ASTM C-273,	11,382	1,834	367	246	262
Parallel, psi	524				
Perpendicular, psi	529				
Tensile Strength, ASTM D-1623					
Parallel, psi	606				
K-Factor, ASTM C-518, BTU in/hr ft ² °F	0.350				
Water Absorption, ASTM D-2824					
lbs/ft ²	0.067				
%	3.87				
Water Vapor Permeability, ASTM E-96, perm in	0.618				
Combustibility, MIL-F-83671 sec 4.5.3.8	PASS				
Oil Resistance Test	PASS				
Dimensional Stability, ASTM D-2126, % volume change:					
	@ -20°F	@ 158°F	@ 158°F/ 100%R.H.	@ 300°F	
28 days	0.06	4.67	1.60	16.43	

Processing Parameters

Condition both components to 77°F. Carefully blend T component into R component. Mix for 25-30 seconds with a high speed mixer (3500 rpm). Pour contents into a mold preheated to 100-115°F. Post cure for one hour at ambient temperature or 25°F in excess of the maximum anticipated use temperature, not to exceed 200°F. Cool mold below 100°F before demolding part.

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 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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