

J6 Polymers LLC

Product Bulletin



JFOAM™ FA-180

Product Description

JFoam™ FA-180-R is the resin component of a two component polyurethane system, which when combined with the T component, isocyanate, will produce a rigid, cellular polyurethane foam that can be used for low density insulation applications. The foam is co-blown with HFC-245FA and water. FA-180 is flame retardant and can meet some Military Specification requirements.

Typical Chemical Properties

	T Component Polymeric MDI	R Component Polyol Blend
Viscosity cps	700 at 77°F (25°C),	1720 at 65°F (18.3°C),
Specific Gravity at 77°F (25°C), g/mL	1.24	1.24
Mixing Ratio (% by weight)		
R Component Water/245fa Blown Polyol		48
T Component Polymeric MDI		52

Typical Physical Properties

Hand Mix Reactivity, R Component at 77°F (25°C) / T Component at 65°F (18.3°C)			
Cream Time, seconds			20
String Time, seconds			90
Cup density, #10 cup, pcf			1.80
Density, ASTM D-1622			
Molded, overall, pcf			2.2
Core, pcf			2.13
Compressive Strength, 10% deflection, ASTM D-1621			
Parallel, psi			18.21
Perpendicular, psi			18.62
Initial K-Factor, ASTM C-518, BTU in/hr ft ² °F			0.148
Shear Strength, ASTM C-273, psi			26.42
Tensile Strength, ASTM D-1623, psi			38.56
Water Absorption, ASTM D-2842			
lb/in ²			0.05
% by volume			3.12
Tumbling Friability, ASTM C-421, % loss			1.62
Closed Cell Content, ASTM D-2856, %			88.42
Dimensional Stability, ASTM D-2126, % volume change			
	At -20°F (-29°C)	At 158°F (70°C)	At 158°F (70°C)/ 100%R.H.
1 day	0.02	-0.21	1.13
7 days	-0.05	-0.58	0.73
14 days	-0.11	-0.66	-0.10
28 days	-0.61	-0.43	0.03

Storage

Avoid moisture contamination during storage, handling, and processing. Store the isocyanate component from 65°F to 85°F. Do not expose isocyanate component to lower temperatures as freezing may occur. Store the polyol component at temperatures not exceeding 60°F.

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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