



JFOAM™ FA-210

Product Description

JFoam™ FA-210-R is the resin component of a two part polyurethane system, which when with the T component, Isocyanate, will produce an HFC-245fa and water co-blown rigid polyurethane foam system. FA-210 can be used in a variety of specialized low density molding and void filling applications. This foam product in its finished form is flame retardant and can meet some Military Specification requirements.

Typical Chemical Properties

	FA-210-T T Component <u>Polymeric MDI</u>	FA-210-R R Component <u>Polyol Blend</u>
Viscosity at 77°F (25°C), cps	200	1,080
Liquid Density at 77°F (25°C), g/mL	1.24	1.16
Mixing Ratio (% by weight)	62	38

Typical Physical Properties

Hand Mix Reactivity at 65°F (18°C)	
Cream Time, seconds	24
Gel Time, seconds	65
Cup density, #10 cup, pcf	2.10
Density, ASTM D-1622	
Molded, overall, pcf	2.41
Core, pcf	2.11
Compressive Strength, 10% deflection, ASTM D-1621	
Parallel, psi	45.41
Perpendicular, psi	26.56
Compressive Modulus, ASTM D-1621	
Parallel, psi	963.97
Perpendicular, psi	430.40
Shear Strength, ASTM C-273	
Parallel, psi	18.49
Perpendicular, psi	21.76
Shear Modulus, ASTM C-273	
Parallel, psi	910.36
Perpendicular, psi	1161.27
Tensile Strength, ASTM D-1623	
Parallel, psi	34.00
Perpendicular, psi	24.12
Tensile Modulus, ASTM D-1623	
Parallel, psi	2269.89
Perpendicular, psi	809.02
Closed Cell Content, ASTM D-6226, %	88.2
Dimensional Stability, ASTM D-2126, % volume change:	
Cold Aging at -20°F (-29°C), 14 days, %	0.13
Heat Aging at 158°F (70°C), 14 days, %	0.08
Humid Aging at 158°F (70°C) / 100%R.H., 14 days, %	1.41
Water Absorption, ASTM D-2842	
lb/ft ²	0.05
% by volume	2.93
% by weight (per MIL-PRF-26514G)	72.0
Initial K-factor, ASTM C-518, BTU in/hr ft ² °F	0.174
Oil Resistance per MIL-P-21929C	Pass
Combustibility per MIL-PRF-26514G	Pass
Compression Set per MIL-P-21929C	0.98
Dielectric Constant	
at 1 MHz, ASTM D-150-98	1.04

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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