



Product Bulletin

JFOAM™ HTC-12- In Development

Product Description

JFoam™ HTC-12-R is the R component of a two part polyurethane system (modified polyisocyanurate), which when combined with the T component will produce an all water-blown rigid polyurethane / polyisocyanurate foam system. HTC-12 can be used in core foam applications requiring high compressive strengths and modulus at high temperatures.

Typical Component Properties

	T Component Polymeric MDI	R Component Polyol Blend
Viscosity at 77°F (25°C), cps	200	450
Mixing Ratio (% by weight)	60	40

Typical Physical Properties

Hand Mix Reactivity, Components at 25°C	
Cream Time, seconds	14
String Time, seconds.....	211
Cup Density, #10 cup, pcf	8.6
Density, ASTM D-1622	
Molded, overall, pcf	14.1
Core, pcf.....	13.6
Compressive Strength, 10% deflection, ASTM D-1621	
Parallel, (25°C) psi	331
Parallel, (175°C) psi	129
Perpendicular, (175°C) psi	127
Compressive Modulus, ASTM D-1621	
Parallel, (25°C) psi	5147
Parallel, (175°C) psi	2446
Perpendicular, (175°C) psi	2370
Tensile Strength, ASTM D-1622	
Parallel, psi.....	97
Tensile Modulus, ASTM D-1622	
Parallel, psi.....	5583
Shear Strength, ASTM D-273	
Parallel, psi.....	108
Shear Modulus, ASTM D-273	
Parallel, psi.....	1157
Flatwise Tensile, as core material, ASTM C-297	
Parallel, skins on, psi.....	175
Parallel, skins off, psi.....	192
Flatwise Tensile Modulus, as core material, ASTM C-297	
Parallel, skins on, psi.....	5310
Parallel, skins off, psi.....	5020
Coefficient of Thermal Expansion, ASTM E 831, 25°C to 200°C, $\mu\text{m}/(\text{m}\cdot^\circ\text{C})$	
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** Foams were cured at 250°F for 2 hours

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.

J6 Polymers LLC
601 Derby Line Rd
Genoa, IL 60135 USA
Tel: (815) 517-1173
Fax: (815) 517-0781
customerservice@j6polymers.com
www.J6polymers.com

