



Product Bulletin

JFOAM™ S-1200

Product Description

JFoam™ S-1200-R is the resin component of a two part polyurethane system, which when combined with the T component, Isocyanate, will produce a water-blown rigid polyurethane spray foam system. S-1200 can be sprayed in place or in layers for use in prototyping and tooling applications

Typical Chemical Properties

	S-1200-T T Component <u>Polymeric MDI</u>	S-1200-R R Component <u>Polyol Blend</u>
Viscosity at 77°F (25°C), cps	200	1100
Liquid Density at 77°F (25°C), g/ml	1.24	1.07
Mixing Ratio (% by weight)		
R Component Water Blown Polyol		46.3
T Component Polymeric MDI		53.7

Typical Physical Properties

Hand Mix Reactivity at 77°F (25°C), (T & R)			
Cream Time, seconds			6
Tack Free Time, seconds			10
Free Rise Cup Density, P4325 cup, pcf			11.7
Density, ASTM D-1622 Core, pcf			11.76
Compressive Strength, 10% deflection, ASTM D-1621 Parallel, psi.....			263.1
Compressive Modulus, ASTM D-1621 Parallel, psi.....			6114
Shear Strength, ASTM C-273			
Parallel, psi.....			156.0
Modulus, psi			1390
Tensile Strength, ASTM D-1623			
Parallel, psi.....			210.2
Modulus, psi			7903
Water Absorption, ASTM D-2842 lb/in ²			0.02
% by volume.....			1.27
Friability, % loss, ASTM C-421			1.45
Closed Cell content, %, ASTM D-2856			92.6
Dimensional Stability, ASTM D-2126, % volume change:			
	<u>-20°F (-29°C)</u>	<u>158°F (70°C)</u>	<u>158°F (70°C)/100%RH</u>
1 Day	-0.07	-0.46	-0.24
7 Day	-0.07	-0.77	0.49
14 Day	-0.07	-1.10	-0.40
28 Day	-0.17	-1.31	-0.62

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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