

### PHYSICAL PROPERTIES

PROPERTY	ASTM TEST METHOD	SI	METRIC
<b>Density</b> , pcf (kg/m <sup>3</sup> ), Nominal	<b>D-1622</b>	2.45	(38.5)
<b>Compressive Strength, @ 10% Deflection</b> , psi (kPa) Parallel to Rise Perpendicular to Rise	<b>D-1621</b>	30	(207)
<b>Compressive Strength after 28-day exposure to 400°F (202°C)</b> , psi (kPa) Parallel to Rise Perpendicular to Rise		27	(186)
<b>k-Factor</b> , BTU-in/hr-ft <sup>2</sup> -°F (w/mK) Initial Aged 180 Days @ 75°F (24°C) Aged 90 Days @ 140°F (60°C)	<b>C-518</b>	0.13	(0.018)
		0.165	(0.022)
		0.18	(0.026)
<b>Water Absorption</b> , psf (g/cm <sup>2</sup> ) % By Volume	<b>D-2842</b>	0.035	(0.017)
		<2	<2
<b>Water Vapor Permeability</b> , Perm-in (ng/Pa-S-M)	<b>E-96</b>	4.0	(5.8)
<b>Service Temperature</b> , °F (°C) Continuous Intermittent		400°F 450°F	(202°C) (230°C)
<b>Closed Cell Content</b> , %	<b>D-2856</b>	87	
<b>Dimensional Stability</b> , % Change <b>Dry Heat, 400°F (202°C)</b> 1 Day 7 Days 28 Days <b>Dry Heat, 450°F (230°C)</b> 1 Day 7 Days 28 Days	<b>D-2126</b>	Length	Volume
		+1.3	+0.1
		+2.3	+2.3
		+1.6	-4.4
		+10.3	+14.6
		+7.1	+1.5
		+1.9	-11.9
<b>Surface Burning Characteristics<sup>1</sup></b> Flame Spread Smoke Developed	<b>E-84</b>	40 80	

<sup>1</sup>The numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions. The physical properties shown above were obtained by processing the chemicals through a conventional low pressure high shear mixing machine. Chemical temperatures were maintained at 90° F (32° C) for the isocyanate component and 80° F (27° C) for the polyol. Box pours measuring 24" x 24" x 24" (61cm x 61 cm x 61 cm) were made and the resulting foam was cured for 30 days at room temperature, approximately 77° F (25° C). Testing was done on core samples cut from the box pour.



### CHEMICAL PROPERTIES

PROPERTY	COMPONENT A	COMPONENT B	COMPONENT C
<b>Viscosity, cps @ 77°F (25°C)</b>	600-800	750-1000	275-450
<b>Specific Gravity, cps @ 77°F (25°C)</b>	1.24	1.24	1.24
<b>Ratio, parts by Weight</b>	67	16.5	16.5
<b>Reaction Profile</b>	200 gm Lab Hand Mix With 3000 rpm Mixer Start of Rise: 15-45 seconds String Gel: 60-150 seconds Rise Time: 90-240 seconds Free Rise Density: 2.1 – 2.3 pcf (33.7 – 37 kg/m <sup>3</sup> )		