



LAST-A-FOAM® R-3312 RIGID POLYURETHANE FOAM			
Property	English	Metric	Test Method
Density (pcf) (kg/m ³)	12	192	ASTM D-1622
Compressive Strength (psi) (kPa)			ASTM-D-1621
Parallel to Rise			
@ 75°F	411	2834	
@ 200°F	259	1786	
Perpendicular to Rise			
@ 75°F	444	3061	
@ 200°F	264	1820	
Compressive Modulus (psi) (kPa)			ASTM-D-1621
Parallel to Rise			
@ 75°F	12541	86470	
@ 200°F	9104	62772	
Perpendicular to Rise			
@ 75°F	12070	83223	
@ 200°F	8431	58132	
Tensile Strength (psi) (kPa)			ASTM D-1623 Type A Specimens
Perpendicular to Rise	436	3006	
Shear Strength (psi) (kPa)			ASTM C-273
Rise Parallel to Specimen Thick.	199	1372	
Shear Modulus (psi) (kPa)			ASTM C-273
Rise Parallel to Specimen Thick.	1947	13425	
Flexural Strength (psi) (kPa)			ASTM D-790 Method 1-A
Rise Parallel to Specimen Width	579	3992	
Rise Parallel to Beam Thick.	554	3820	
Flexural Modulus (psi) (kPa)			ASTM D-790 Method 1-A
Rise Parallel to Specimen Width	17594	121311	
Rise Parallel to Beam Thick.	15739	108520	
CTE (in/in-°F) (m/m-K)	32 x 10 ⁻⁶	58 x 10 ⁻⁶	From -50 to +200°F, GP Method
Closed Cell Content (%)	97	97	ASTM D-6226
Thermal Conductivity (BTU*in/ft ² *F*h) [(W/m*K)]	0.266	0.038	ASTM C-518 at 75°F (24°C) mean temp.
Hardness, Shore-D (cut foam surface)	24	24	ASTM D-2240
Tumbling Friability (% Weight Loss)	2.4	2.4	ASTM C-421 (20 minutes @ 60 rpm)
Glass Transition, Tg (°F) (°C)	265	129	ASTM E-1824
Hydrostatic Performance (% Wt Gain @ 135psi)	<5% Wt Gain	<5% Wt Gain	GP Method

Values shown are average values determined from laboratory tests.

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GENERAL PLASTICS MANUFACTURING COMPANY

4910 BURLINGTON WAY
TACOMA, WA 98409
phone (253) 473-5000 fax (253) 473-5104
e-mail: sales@generalplastics.com
website: www.generalplastics.com

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