Bon Technical Bulletin

#83-244 & #83-245 Expansion Joint PolyFoam Rolls

Typical Physical Properties

Properties	Test Method	1.7 pcf	2.2 pcf
Nominal Thickness	Nominal Thickness	**1/4"**	**1/2"**
Compressive Strength	ASTM D3575	2.8	2.6
Vertical Direction (psi)	Suffix D @ 25%	10.6	10.5
Compression Set (%)	ASTM D3575	<15.8	<15.0
Compression Deflection	ASTM D3575 Suffix D	5 (.35)	5 (.35)
Tensile Stress (psi)	ASTM D3575-93	40.0	38.0
(@ Each Thickness)	Suffix T MD / CMD	22.0	23.0
Elongation (%)	ASTM D3575-93	19.0	18.0
	Suffix T MD / CMD	8.0	7.0
Tear Resistance (lb/ft^3)	ASTM D3575-93	8.0	7.8
(@ Each Thickness)	Suffix T MD / CMD	11.9	12.0
Density Range (lb/ft^3)	ASTM D3575-93	1.3-1.6	1.6-1.8
Water Absorption (lb/ft^2)	ASTM D3575-93	< 0,1	< 0,1
	Suffix L		
Thermal Stability MD / CMD	ASTM D3575-93	<5%**	<5%**
** Except Thickness Direction	Suffix S		
Water Vapor Transmission Rate	ASTM F-1249	0.050	0.050
GM / 100 in^2 / 24 hr.	Method 3005 FED STD 101	0.050	0.050
Thermal Resistance R-Value	ASTM C518-91	1 Layers	1 Layers
(HR-FT^2-^{o}F/BTU)		0.80	0.80
Thermal Conductivity K-Value	ASTM C518-91		
(BTU-IN/HR-FT^2-^{o}F/BTU		0.22	0.22
Static Decay	EIA STD. 541	< 2 sec.	< 2 sec.
(Anti-Static Grade)	Appendix F		
Surface Resistivity	EIA STD. 541	1,0 x 10^9-	1,0 x 10^9-
(Anti-Static Grade)	Section 4.3	1,0 x 10^{12}	1,0 x 10^{12}
Flexibility +71^{o}F - 65^{o}F	PPP-C-1752 D	Pass	Pass
Contact Corrosivity	Method 3005 FED STD 101	None	None
(Alum Plate)			
Recycle Grade	80-100% Content		

Flame Retardent Grade

Meets FMVSS 302

Meets FR Requirements in UL94 HF 1 &2

IAW ASTM E 162-09 Surface Flammability Inde <25

IAW ASTM E 662 Spacific Optical Density of Smoke with Radiant Heat is 56 DM Time at 13 Min.

IAW ASTM E 662 Spacific Optical Density of Smoke with Radiant Heat and Flame is 42 DM time at 9.5 Min.

* The data presented for these products are for unconverted Superior Profiles low density polyethylene foam products.
While values shown are typical of these products, they should not be construed as specification limits.