

Physical Properties of Alleguard EPS - ASTM C578



Property	Unit	ASTM Test	Type XI	Type I	Type VIII	Type II	Type IX	Type XIV	Type XV
Common Designation	pcf		.75#	1#	1.25#	1.5#	2#	2.5#	3#
Density, minimum	pcf	D1622	0.70	0.90	1.15	1.35	1.80	2.25	2.70
Density, range	pcf	C303	.70-.89	.90-1.14	1.15-1.34	1.35-1.79	1.80-2.20	2.25-2.69	2.70-3.1
Thermal Resistance	(per inch) @25F	C518	3.6	4.4	4.6	4.8	5.0	5.0	5.1
	(per inch) @40F		3.4	4.2	4.3	4.6	4.8	4.8	5.0
R Value	(per inch) @70F		3.2	3.9	3.9	4.2	4.4	4.4	4.6
Compressive Strength	psi	D1621	5.0	10.0	13.0	15.0	25.0	40.0	60.0
Flexural Strength min.	psi	C203	10.0	25.0	30.0	35.0	50.0	60.0	75.0
Water Vapor Permeability	(perms)	E96	5.0	5.0	3.5	3.5	2.5	2.5	2.5
Water Absorption by total immersion	(max. % volume)	C272	4.0	4.0	3.0	3.0	2.0	2.0	2.0
Oxygen index	%	D2863	24	24	24	24	24	24	24
Dimensional Stability	% Change	D2126	max 2.0	max 2.0	max 2.0	max 2.0	max 2.0	max 2.0	max 2.0
Coefficient of Thermal Expansion	in./(in.) (F)	D696	0.000035	0.000035	0.000035	0.000035	0.000035	0.000035	0.000035
Maximum Service Temperature	F								
Long Term Intermittent			167 180	167 180	167 180	167 180	167 180	167 180	167 180

Alleguard EPS has a flame spread index of < 25 and smoke development of less than 450 when tested in accordance with ASTM E84 for all densities listed. See ASTM C578 for standard test methods and detailed information.

www.Alleguard.com

Protective Foam Solutions