



Información Técnica de Expanded Polyethylene (EPE) Baja Y Media Densidad

Physical Properties	Test Method	Units	Expanded EPE				Extruded PE	
Density (pounds /cubic foot)	ASTM-D3575	pcf	1.0	1.3	1.5	1.9	1.7	2.2
Density (grams/liter)	ASTM-D3575	g/l	16	20	24	30	27	37
Compressive Strength @ 10 %	ASTM-D3575	psi	5.2	7	8.5	10	2	7
Compressive Strength @ 25 %		psi	8	10	11	13	4	9
Compressive Strength @ 50 %		psi	16	18	19	22	10	17
Compressive Strength @ 75 %		psi	38	44	49	56	NA	NA
Tensile Strength	ASTM-D3575	psi	39	40	45	52	26	32
Tensile Elongation	ASTM-D3575	%	40	38	35	32	40	50
Tear Strength	ASTM-D3575	lb/inch	12	14	16	17	7	14
Compressive Set @ 25 %	ASTM-D3575	%	3	3	4	4	< 10	< 10
Compressive Set @ 50 %	ASTM-D3575	%	12	14	13	12	< 20	< 20
Buoyancy	ASTM-D3575	lb/ft ³	61.2	60.6	59.5	59.5	55	58
Thermal Conductivity	ASTM-C177	(K) BTU-in/ft ² -hr-°F	0.26	0.26	0.24	0.24	0.50	0.40
Thermal Resistance	ASTM-C177	(R) @ 70°F	3.9	4.0	4.2	4.2	2.0	2.5
Coef. Of Lin. Thermal Expand.	ASTM-D696	in/in/°F x 10 ⁻⁵	9.5	8.2	7.2	6.2	NA	NA
Service Temperature	ASTM-D3575	°F	160	160	160	160	NA	NA
Water Absorption	ASTM-D3575/C272	%	< 1 %	< 1 %	< 1 %	< 1 %	< 3 %	< 1 %
Compressive Creep	ASTM-D3575	1000 hr, % (psi)	2.5 (1.0)	2.8 (1.0)	3.0 (1.0)	3.3 (1.0)	< 10 (1.5)	< 10 (2.5)
Flammability	FMVSS-302	< 4.0 in/min	Pass	Pass	Pass	Pass	Pass	Pass
Chemical Resistance	Various	1 hr exposure (solvents, acids & alkaline)	Pass	Pass	Pass	Pass	Pass	Pass
Fuel Immersion	Coast Guard Fuel B per 33 CFR § 183.114	< 5 % (ch in vol.)	Pass	Pass	Pass	NA	NA	NA

Note: This data is for Expanded Polyethylene (EPE) for standards products.
While values shown are typical of the product, not as specifications limits.

Expanded Polyethylene (EPE) is a highly resilient closed-cell expanded bead foam product. It is ideally suited as an energy absorbing cushioning material for products requiring shock absorption, vibration dampening, buoyancy, insulation, and chemical resistance. It withstands multiple impacts without damage, is very light-weight and non-abrasive. It is also multi-directional in nature, so unlike traditional extruded foams, which yield different properties along the extrusion, vertical and horizontal axes, the properties of EPE are the same regardless orientation. These properties make EPE an ideal and versatile product for protective packaging and many others applications.