



Información Técnica de Expanded Polyethylene (EPE) Media y Alta Densidad

Physical Properties	Test Method	Units	Expanded EPE				Extruded PE	
Density (pounds / cubic foot)	ASTM-D3575	pcf	2.3	2.8	3.2	3.7	3.9	6.0
Density (grams per liter)	ASTM-D3575	g/l	37	45	52	60	62	96
Compressive Strength @ 10 %	ASTM-D3575	psi	14	17	20	23	12	22
Compressive Strength @ 25 %		psi	18	22	26	30	14	28
Compressive Strength @ 50 %		psi	29	35	40	47	23	42
Compressive Strength @ 75 %		psi	67	75	93	102	NA	NA
Tensile Strength	ASTM-D3575	psi	62	70	76	84	60	80
Tensile Elongation	ASTM-D3575	%	31	30	24	24	50	40
Tear Strength	ASTM-D3575	lb/inch	19	21	22	24	26	30
Compressive Set @ 25 %	ASTM-D3575	%	4	4	5	6	< 10	< 10
Compressive Set @ 50 %	ASTM-D3575	%	12	12	14	14	< 20	< 20
Buoyancy	ASTM-D3575	lb/ft ³	59.3	59.1	58.5	58	58	55
Thermal Conductivity	ASTM-C177	(K) BTU-in/ft ² -hr-°F	0.24	0.24	0.26	0.28	0.40	0.40
Thermal Resistance	ASTM-C177	® @ 70°F	4.2	4.1	3.9	3.6	2.5	2.5
Coef. Of Lin. Thermal Expan.	ASTM-D696	in/in/°F x 10 ⁻⁵	5.5	4.8	4.6	4.4	NA	NA
Service Temperature	ASTM-D3575	°F	160	160	160	160	NA	NA
Water Absorption	ASTM-D3575/C272	%	< 1 %	< 1 %	< 1 %	< 1 %	< 1 %	< 1 %
Compressive Creep	ASTM-D3575	1000 hr, % (psi)	3.5 (1.5)	3.0 (1.5)	4.0 (2.5)	4.0 (5.0)	< 5 (5.0)	< 5 (10.0)
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	Pass	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.