



Información Técnica de Expanded Polypropylene (EPP)

Physical Properties	Test Method	Units	Expanded EPP		Extruded PE		
Density (pounds / cubic foot)	ASTM-D3575	pcf	2.8	3.7	4.0	6.0	9.0
Density (grams per liter)	ASTM-D3575	g/l	45	60	64	96	144
Compressive Strength @ 10 %	ASTM-D3575	psi	32	44	NA	NA	NA
Compressive Strength @ 25 %		psi	42	57	16	28	55
Compressive Strength @ 50 %		psi	54	73	26	40	80
Compressive Strength @ 75 %		psi	111	155	NA	NA	NA
Tensile Strength	ASTM-D3575	psi	67	89	75	96	129
Tensile Elongation	ASTM-D3575	%	15	15	NA	NA	NA
Tear Strength	ASTM-D3575	lb/inch	16	19	25	39	45
Compressive Set @ 25 %	ASTM-D3575	%	7	7	<15	<10	<10
Compressive Set @ 50 %	ASTM-D3575	%	12	12	<15	<10	<10
Buoyancy	ASTM-D3575	lb/ft ³	59	56.5	NA	NA	NA
Thermal Conductivity	ASTM-C177	(K) BTU-in/ft ² -hr-°F	0.25	0.26	0.45	0.45	0.45
Thermal Resistance	ASTM-C177	° @ 70°F	4.0	3.8	2.2	2.2	2.2
Coef. Of Lin. Thermal Expan.	ASTM-D696	in/in/°F x 10 ⁻⁵	5.4	4.8	NA	NA	NA
Service Temperature	ASTM-D3575	°F	212	212	NA	NA	NA
Water Absorption	ASTM-D3575/C272	%	< 1 % (<0.02)	< 1 % (<0.02)	< 10 % (<0.2)	< 5 % (<0.1)	< 5 % (<0.1)
Compressive Creep	ASTM-D3575	1000 hr, % (psi)	1.5 (3.0)	1.5 (6.0)	< 5 (3.0)	< 5 (5.0)	< 5 (10.0)
Flammability	FMVSS-302	< 4.0 in/min	Pass	Pass	Pass	Pass	Pass
Chemical Resistance	Various	1 hr exposure (solvents, acids & alkaline)	Pass	Pass	Pass	Pass	Pass
Fuel Immersion	Coast Guard Fuel B per 33 CFR § 183.114	< 5 % (ch in vol.)	Pass	Pass	NA	NA	NA

Note: This data is for Expanded Polypropylene (EPP) for standards products.

While values shown are typical of the product, not as specifications limits.

Expanded Polypropylene (EPP) 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 EPP are the same regardless orientation. These properties make EPP an ideal and versatile product for protective packaging and many others applications.