

XOLEFIN® Engineered Foams

ZXPE Technical Data

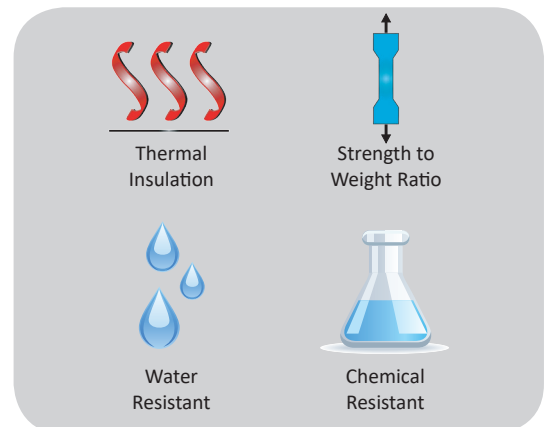
Product Description

Xolefin® ZXPE is an irradiation crosslinked, closed-cell Polyethylene foam. The ZXPE products exhibit a fine cell structure and excellent mechanical properties at low densities. Xolefin® ZXPE can be produced in a wide variety of colors. Standard colors are white, black, charcoal and blue.

Product Characteristics

- Excellent strength to weight ratio
- Excellent chemical resistance
- Low water absorption
- Excellent thermal insulation

ZXPE can be laminated for greater thickness or to other substrates, as well as die cut, printed, or adhesive coated.



Product Form

- Produced in both roll and sheet form
- Standard width 60"
- Standard Density and Thickness

Density Thickness

2 pcf	.080" to .260"
4 pcf	.040" to .188"
5 pcf	.024" to .138"



Standard Test	ASTM D-3575	units	2 ZXPE	4 ZXPE	5 ZXPE	11 ZXPE	
Density	Suffix W	pcf	4	5	6	11	
		kg/m ³	64	80	96	176	
Thickness range		in.	.080–.260	.040–.188	.024–.138	.020–.125	
Tensile strength–lengthwise	Suffix T	psi	55	115	170	300	
Tensile strength–crosswise		psi	43	85	100	270	
Elongation–lengthwise	Suffix T	%	210	340	280	225	
Elongation–crosswise		%	200	280	310	175	
Compression resistance	Suffix D						
		25%	psi	5	9	10	63
		50%	psi	14	19.2	22	88
Compression Set	Suffix B	%	<30	<20	<15		
Tear resistance–lengthwise	Suffix G	pli	12	24	35	95	
Tear resistance–crosswise		pli	8	19	24	78	
Temperature Range		Degrees F	-110°–215°	-110°–215°	-110°–215°	-110°–215°	

NOTE: Physical properties listed are nominal. Specific ranges and tolerances for any individual application are available upon written request. Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability or the accuracy of this information or the suitability of our products in any given situation. Users of our products should make their own tests to determine the suitability of each such product for their particular purpose. The products discussed are sold without warranty either expressed or implied, and the buyer assumes all the responsibility for loss or damage arising from the handling and use of our products, whether done in accordance with directions or not. Statements concerning the possible use of our products are not intended as recommendations to use our products in the infringement of any patent.