



XLPE Foam

Full name of xlpe foam is chemical crosslinked polyethylene closed cell foam, also named xpe foam.

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PHYSICAL PROPERTIES	Units	Test Method	Values							
Density - Metric Units	kg/m ³	GB/T 6343-2009	26±3	30±3	35±3	40±5	50±10	65±10	100±10	200±10
Tensile Strength-L	Mpa ≥	GB/T 6344-2008	0.2	0.25	0.3	0.4	0.48	0.7	0.9	1.6
Tensile Strength-W	Mpa ≥	GB/T 6344-2008	0.1	0.2	0.24	0.34	0.4	0.5	0.8	1.2
Tear Strength-L	Ncm ≥	GB/T 1130-2009	8	10	12	16	16	20	30	40
Tear Strength-W	Ncm ≥	GB/T 1130-2009	6	7	8	14	14	18	25	35
Elongation-L	% ≥	GB/T 6344-2008	60	80	100	120	130	150	170	190
Elongation-W	% ≥	GB/T 6344-2008	80	100	110	130	140	160	180	200
Compression Strength	25%Mpa ≥	GB/T 8813-2008	0.025	0.03	0.04	0.045	0.05	0.08	0.13	0.17
Thermal Conductivity	w / m•k ≤	GB/T 3399-1982	0.036	0.038	0.04	0.04	0.045	0.045	0.045	0.045
Water Absorption	% ≤	GB/T 8810-2005	8							



IXPE Foam

Full name of ixpe foam is irradiation crosslinked polyethylene closed cell foam.

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PHYSICAL PROPERTIES	Units	Test Method	Value						
Density - Metric Units	kg/m ³	GB/T 6343-2009	30±3	35±4	40±4	50±5	65±7	100±10	200±20
Tensile Strength-L	Mpa ≥	GB/T 6344-2008	0.25	0.3	0.39	0.42	0.75	1	1.5
Tensile Strength-W	Mpa ≥	GB/T 6344-2008	0.2	0.22	0.33	0.35	0.63	0.83	1.25
Tear Strength-L	kN/m ≥	GB/T 1130-2009	1.4	1.6	2	2.2	3.3	4.2	6.7
Tear Strength-W	Ncm ≥	GB/T 1130-2009	1.7	1.9	2.4	2.8	4	5	8
Elongation-L	% ≥	GB/T 6344-2008	170	180	200	210	230	250	300
Elongation-W	% ≥	GB/T 6344-2008	150	150	165	180	190	210	250
Variation ratio of dimensional(70°C)-L	% ≤	GB/T 8811-2008	-8	-8	-8	-6	-6	-6	-6
Variation ratio of dimensional(70°C)-W	% ≤	GB/T 8811-2008	-6	-6	-6	-4	-4	-4	-4
Compression Strength	Mpa ≥	GB/T 8813-2008	0.05	0.06	0.07	0.08	0.12	0.14	0.22
Compression Set(25% 22h)	% ≤	GB/T 6669-2008	10	10	8	8	6	6	4
Thermal Conductivity	w / m•k ≤	GB/T 3399-1982	0.035	0.04	0.045	/	/	/	/
Water Absorption (23°C±2°C)	mg/cm ² ≤	GB/T 8810-2005	0.5	0.5	0.4	0.4	0.3	0.3	0.3

Noted: "L" means parallel with the length, "W" means parallel with the width.



Static Control Foam

Full name of static control foam is static control irradiation crosslinked polyethylene closed cell foam.

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PHYSICAL PROPERTIES	Units	Test Method	Value						
Density - Metric Units	kg/m ³	GB/T 6343-2009	30±3	35±4	40±4	50±5	65±7	100±10	200±20
Tensile Strength-L	Mpa ≥	GB/T 6344-2008	0.13	0.15	0.2	0.21	0.38	0.5	0.75
Tensile Strength-W	Mpa ≥	GB/T 6344-2008	0.1	0.11	0.17	0.18	0.62	0.4	0.6
Elongation-L	% ≥	GB/T 6344-2008	68	72	80	84	92	100	120
Elongation-W	% ≥	GB/T 6344-2008	60	60	66	72	76	84	100
Water Absorption (23°C±2°C, 24h)	mg/cm ² ≤	GB/T 8810-2005	0.6	0.6	0.6	0.5	0.4	0.4	0.3
Surface resistivity	Ω	10 ⁴ ~10 ⁶							
Noted: "L" means parallel with the length, "W" means parallel with the width.									



FR Foam

Full name of fr foam is fire retardant irradiation crosslinked polyethylene closed cell foam.

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PHYSICAL PROPERTIES	Units	Test Method	Value						
			30±3	35±4	40±4	50±5	65±7	100±10	200±20
Density - Metric Units	kg/m ³	GB/T 6343-2009	30±3	35±4	40±4	50±5	65±7	100±10	200±20
Tensile Strength-L	Mpa ≥	GB/T 6344-2008	0.22	0.24	0.32	0.34	0.6	0.8	1.2
Tensile Strength-W	Mpa ≥	GB/T 6344-2008	0.16	0.18	0.26	0.28	0.5	0.66	1
Tear Strength-L	kN/m ≥	GB/T 1130-2009	1.1	1.3	1.6	1.8	2.6	3.4	5.4
Tear Strength-W	Ncm ≥	GB/T 1130-2009	1.4	1.5	1.9	2.2	3.2	4	6.4
Elongation-L	% ≥	GB/T 6344-2008	130	150	160	170	180	200	240
Elongation-W	% ≥	GB/T 6344-2008	115	120	125	130	160	170	200
Variation ratio of dimensional(70°C)-L	% ≤	GB/T 8811-2008	-8	-8	-8	-6	-6	-6	-6
Variation ratio of dimensional(70°C)-W	% ≤	GB/T 8811-2008	-6	-6	-6	-4	-4	-4	-4
Compression Strength	Mpa ≥	GB/T 8813-2008	0.048	0.056	0.064	0.072	0.11	0.13	0.2
Compression Set(25% 22h)	% ≤	GB/T 6669-2008	10	10	8	8	6	6	4
Thermal Conductivity	w / m·k ≤	GB/T 3399-1982	0.04	0.045	0.048	/	/	/	/
Water Absorption (23°C±2°C)	mg/cm ² ≤	GB/T 8810-2005	0.5	0.5	0.4	0.4	0.3	0.3	0.2
Fire Retardancy	Low fire retardant requirement: Horizontal delayed combustion speed ≤ 100mm/min								
Fire Retardancy	Medium fire retardant requirement: Oxygen index is 24~28								
Noted: "L" means parallel with the length, "W" means parallel with the width.									