



ZOTEGRAM

Plastazote foam is a closed cell, cross-linked polyethylene foam available in sheet form. This data characterises LDPE foam grades LD33 (33 kg/m³), LD45 (45 kg/m³) and LD60 (60 kg/m³) density. The material will thermoform into simple and complex shapes.

Property	Test Method	Units	Typical Value STD : LC			
Density Skin/Skin (s/s)	ISO 845 1988 BS 4443 Pt1 : 2 1988 DIN 53420 1978	kg/m ³	33 (nominal)		45 (nominal)	60 (nominal)
Recommended operating temperature range*	Internal	°C	+105 max -70 min		+110 max -70 min	+110 max -70 min
Compression stress – strain characteristics	ISO 3386/1 1986 BS 4443 Pt1 : 5a 1988 DIN 53577 1988					
25% compression		kPa	40		50	70
40% compression		kPa	75		90	115
50% compression		kPa	115		135	170
60% compression		kPa	175		210	255
Compression set s/s thickness						
72 hrs 50% compression 23°C, ½ hr recovery	ISO 1856 : B 1980 BS 4443 Pt1 : 6b 1988 DIN 53572 1986	% set	27		22	19
48 hrs 20% compression 23°C, ½ hr recovery	ISO 1856 : C 1980	% set	7		7	6
Tear strength	ISO 8067 1991 BS 4443 Pt6 : 15 1991	N/m	690	770	1030	1490
Tensile strength	ISO 1798 1983 BS 4443 Pt1 : 3a 1988 DIN 53571 1986	kPa	455	375	600	790
Elongation at break		%	135	120	150	160
Water vapour transmission Temperature = 38°C Relative humidity gradient = 0 / 88.5%	ISO 1663 1981 BS 4370 Pt2 : 8 (DPC) 1987 DIN 53429 1971	µg/m ² /sec	30	47	24	18
Permeability Sample = 25mm thick		ng/Pa/s/m	0.13	0.19	0.1	0.08
Water absorption	DIN 53428 1986					
1 Day		% vol	< 0.1		< 0.1	< 0.1
7 Days		% vol	< 0.3		< 0.3	< 0.3
14 Days		% vol	< 0.4		< 0.4	< 0.4
28 Days		% vol	< 0.5		< 0.5	< 0.5
Thermal conductivity Tested at mean temp of 10°C	ISO 2581 : AS 1975 BS 874 : C 1973	W/m.K	0.040		0.043	0.048
Horizontal burning characteristics	ISO 3582 1978 BS 4735 1974					
Thickness 5mm		mm/sec	1.5		1.3	1.1
Thickness 13mm		mm/sec	1.1		0.8	0.7
	FMVSS 302		Pass at 7mm thickness and above		Pass at 5mm thickness and above	Pass at 4mm thickness and above