



# AS Rubber & Plastics Limited

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## Specification Sheet

### AS645 LD Polyethylene

Plastazote foam is a closed cell, cross-linked polyethylene foam available in sheet/roll format. The material will thermoform into simple and complex shapes.

<u>Property</u>	<u>Test Method</u>	<u>Units</u>	<u>Typical Value</u> <u>STD</u>
<b>Density</b> Skin/Skin (s/s)	ISO845 1988 BS4443 Pt1:2 1988 DIN 53420 1978	kg/m <sup>3</sup>	45 (nominal)
<b>Recommended operating temperature range*</b>	Internal	°C	+110 max -70 min
<b>Compression stress - strain characteristics</b> 25% compression 40% compression 50% compression 60% compression	ISO 3386.1 1986 BS4443 Pt1: 5a 1988 DIN 53577 1988	kPa kPa kPa kPa	50 90 135 210
<b>Compression set</b> s/s thickness 72hrs 50% compression 23°C, ½ hr recovery 48hrs 20% compression	ISO 1856:B 1980 BS4443 Pt1:6b 1988 DIN 53572 1986	% set	22

23°, ½ hr recovery	ISO 1856:C 1980	% set	7
<b>Tear strength</b>	ISO 8067 1991 BS 4443 Pt6:15 1991	N/m	1030
<b>Tensile strength</b>	ISO1798 1983 BS 4443 Pt1:3a 1988 DIN 53571 1986	kPa	600
<b>Elongation at break</b>		%	150
<b>Water vapour transmission</b> Temperature = 38°C Relative humidity gradient = 0/88.5%	ISO1663 1981 BS 4370 Pt2:8 1993 DIN 53429 1971	ug/m <sup>2</sup> /sec	24
<b>Permeability</b> Sample = 25mm thick		ng/Pa/s/m	0.1
<b>Water absorption</b> 1 day 7 days 14 days 28 days	DIN 53428 1986	% vol % vol % vol % vol	<0.1 <0.3 <0.4 <0.5
<b>Thermal conductivity</b> Tested at mean temp of 10°C	ISO 2581:AS 1975 BS 874:C 1973	W/m.K	0.043
<b>Horizontal burning characteristics</b> Thickness 5mm Thickness 13mm	ISO 3582 1978 BS 4735 1974  FMVSS.302	mm/sec mm/sec	1.3 0.8 Pass at 5mm thickness and above