

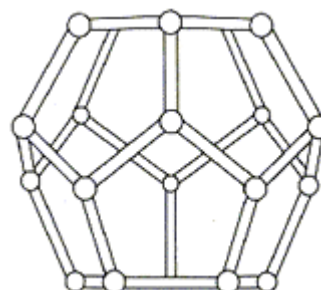


Groupe CELLUTEC

Plastazote®

Low density polyethylene flame retardant

foam 45 kg/m³



LD 45 FR

ZOTEGRAM

Plastazote foam is a closed cell cross-linked polyethylene foam containing flame retardant additives. This data characterises LDPE foam grades LD45FR (45kg/m³). The material will thermoform into simple and complex shapes.

Property	Test Method	Units	Typical Value
Density Skin/Skin (s/s)	EN ISO 845 1995 BS 4443 Pt1 : 2 1988 DIN 53420 1978	kg/m ³	45
Recommended operating temperature range	Internal	Max °C	+110
		Min °C	-70
Compression stress - strain characteristics	EN ISO 3386/1 1997 BS 443 Pt1 : 5a 1988		
25% Compression	DIN 53572 1986	kPA	50
40% Compression		kPA	95
50% Compression		kPA	140
60% Compression		kPA	215
Compression set s/s thickness 72 hrs 50% compression 23°C, ½ hr recovery	EN ISO 1856 1996 BS 4443 Pt1 : 6b 1988 DIN 53572 1986	% set	21
48 hrs 20% compression 23°C, ½ hr recovery			5

Tear strength	EN ISO 1856 1996 BS 4443 Pt6 : 15 1991	N/m	930
Tensile strength	ISO 1798 1983 BS 4443 Pt1 : 3a 1988 DIN 53571 1986	kPA	440
Elongation at break		%	155
Water vapour transmission Temperature = 38°C Relative humidity gradient"	ISO 1663 1981 BS 4370 Pt2 : 8 1993 DIN 53429 1971	µg/m ² /sec	22
Permeability Sample = 25mm thick		ng/Pa/s/m	0.09
Water absorption	DIN 53428 1986		
1 Day		% vol	<0.1
7 Days		% vol	<0.3
14 Days		% vol	<0.4
28 Days		% vol	<0.5
Thermal conductivity Tested at mean temp of 10°C	ISO 8302 1991 BS 874 Pt2 : 2.1 1986	W/m.K	0.043
Horizontal burning characteristics	ISO 3582 1978 BS 4735 1974		Melts back from flame and extinguishes
Thickness 5mm		mm/sec	
Thickness 13mm		mm/sec	
	FMVSS.302		Pass at 2mm thickness and above
Flammability Specifications	Civil Aviation Authority	CAA 8 Issue 2 Para 2.2 (b)	Complies
	Federal Aviation Authority	FAR part 25.853 (b) (1991)	Complies
	Airbus Industrie Specification	ATS 1000.001 Issue 5	Complies
	The Furniture and Furnishings (Fire) (Safety) Regulations 1988		Complies
	DIN 4102: B1		Pass at 6mm thickness and below
	UL94 HF-1		Pass at 6mm thickness and below
	UL94 HF-2		Pass
Shore hardness 00 scale (min 10mm c/c thickness)	ISO 868 1985 BS 2782: Pt3 Method 365B : 1992		57