

Datasheet

Black Polyethylene Rubber Sheet, 1000mm x 2000

RS Stock number [733-6707](#)



Description:

LD45 Polyethylene Foam, cross-linked closed cell polyethylene foam. This material is food quality and resistant to oil and weathering.

Specifications:

	Test Method	Unit	Value
Density	ISO 845 1988		
Skin/skin	BS 4443 Pt 1;2 1988 DIN 53420 1978	kg/m*	45 nominal
Recommended operating temperature range	Internal	C	110+ max 70 min
Compression stress	ISO 3386/1 1986		
Strain characteristics	BS 4443 Pt 1:5a 1988		
25% compression	DIN 53577 1988	kpa	50
40% compression		kpa	90
50% compression		kpa	135
60% compression		kpa	210



	Test Method	Unit	Value
Compression Set			
S/s thickness			
72hrs 50% compression	ISO 3386/1 1986		
23 C 1/2 hr recovery	BS 4443 Pt 1;6b 1988 DIN 53572 1986	% set	22
48hrs 20% compression			
23 C 1/2 hr recovery	ISO 1856 C:1980	% set	7
Tear strength	ISO 8067:1991		
	BS 4443 Pt 6:15 1991	N/m	1030
Tensile strength	ISO 1798 1983		
	BS 4443 Pt:1.3a 1988 DIN 53571 1986	kpa	600
Elongation at break		%	150
Water vapour transmission	ISO 1663 1981		
Temperature=38 C	BS 4370 Pt:2 8 1993		
Relative humidity	DIN 53429 1971		
Gradient=0/88.5%		ug/m*/sec	24
Permeability			
Sample=25mm thick		ng/pa/s/m	0.1
Water absorption 1day continued	DIN 53428 1986	%vol	< 0.1
7 days		%vol	< 0.3
14days		%vol	< 0.4
28 days		%vol	< 0.5
Thermal conductivity	ISO 8302		
Tested at mean temp. of 10c	BS 874 Pt 2;2.1 1986	W/m.K	0.043
Horizontal Burning	ISO 3582 1978		
Characteristics	BS 4735 1974		
Thickness 5mm		mm/sec	1.3
Thickness 13mm		mm/sec	0.8
	FMVSS 302		Pass at 5mm thick and above.
Shore Hardness OO scale			
(min 10mm c/c thickness)	BS 2782; Pt 3Method 365B;1992		62