



## Datasheet

# Black Polyethylene Foam, 1000mm x 2000mm x 10mm

RS Stock number [733-6700](#)



### 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

23 C1/2 hr recovery

ISO 3386/1 1986

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

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