



TECHNICAL DATA SHEET

Data obtained from our supplier's technical data sheet

Product identifier: **PLASTAZOTE MM3 – MM5 (WHITE – BEIGE)**
PLZ3C-PLZ3CF / PLZ5C-PLZ5CF
PLZ3B-PLZ3BF / PLZ5B-PLZ5BF

Plastazone is a cross-linked closed-cell expanded polyethylene, available in sheets. The following features refer to low-density types: LD33 (33 kg/m³), LD45 (45 kg/m³) and LD60 (60 kg/m³). The material may be heat-moulded into simple and complex shapes.

Proprieties	Test method	Unit	Typical value STD: LC			
Density	ISO845 1988	kg/m ³	33 (nominal)	45 (nominal)	60 (nominal)	
Leather/Leather (s/s)	BS4443 Pt1:2 1988					
	DIN 53420 1978					
Temperature limits recommended	Internal	°C	+105 max -70 min	+110 max -70 min	+110 max -70 min	
Compression load	ISO 3386/1 1986	kPa	40	50	70	
25% compression	BS 4443 Pt1:5a 1988					
40% compression	DIN 53577 1988					
50% compression						
60% compression						
Permanent deformation	ISO 3386/1 1986	%def.	27	22	19	
Thickness s/s	BS 4443 Pt1:6b 1988					
72 hours 50% compress	DIN 53572 1986					
23°C ½ hour recovery	ISO 1856:C 1980					
48 hours 20% compress		%def.	7	7	6	
23°C ½ hour recovery						
Tear strength	ISO 8067 1991 BS4443 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% Permeability Specimen = thickness 25 mm	ISO 1663 1981 BS 4370 Pt2:8 1993 DIN 53429 1971	μg/m ³ /sec	30	47	24	18
		ng/Pa/s/m	0.13	0.19	0.1	0.08

Water absorption 1 day 7 days 14 days 28 days	DIN 53428 1986	%vol	<0.1	<0.1	<0.1
		%vol	<0.3	<0.3	<0.3
		%vol	<0.4	<0.4	<0.4
		%vol	<0.5	<0.5	<0.5

Thermal conductivity Test at mean temp. 10°C	ISO8302 BS874Pt2:2.1 1986	W/m.k	0.040	0.043	0.048
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Horizontal combustion Thickness 5 mm Thickness 13 mm	ISO3582 1978 BS4735 1974 FMVSS302	mm/sec mm/sec	1.5 1.1	1.3 0.8	1.1 0.7
			Passes to 7 mm and more	Passes to 7 mm and more	Passes to 7 mm and more

Scale 00 Shore hardness (thickness c/c min 10 mm)	BS2782:Pt3 Method 365B:1992		54	62	65
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MAXIMUM TEMPERATURE OF USE

The maximum temperature of use is defined as the temperature which will cause a linear shrinkage of 5% after 24 hours of exposure, on a specimen of 100 x 100 x 25 mm.

The degree of shrinkage depends on the type of material, its density, temperature, exposure period, specimen dimensions and cell dimensions.

Other temperatures may be the limiting factor, depending on the specific conditions of each application.