

Tyges.co.uk

Specification Sheet for : 45kg PE Foam

	Test Method	Units	Typical Value
Material Properties			
Nominal Density	ISO 845	Kg/m ³	45
Tensile Strength	ISO 1798	kPa	478
Elongation	ISO 1798	%	224
Shore - OO	ASTM D2240	oo	61
Flammability	FMVSS302	mm/min	35
Compression			
Compression Stress-Strain			
10 % compression	ISO 844	kPa	88
25 % compression	ISO 844	kPa	103
50 % compression	ISO 844	kPa	172
Compression Set			
½ hr recovery	ISO 1856	%	7.0
24hr recovery	ISO 1856	%	2.0
½ hr recovery (50 %)	ISO 1856	%	20.0
24hr recovery (50 %)	ISO 1856	%	7.0
Thermal Properties			
Working Temperature Range	Internal	°C	-60 / 90
Water Absorption % Vol (max)	Internal	%	1
Thermal Conductivity at 10 C	ASTM C177	W/mK	0.0440
Thermal Conductivity at 40 C	ASTM C177	W/mK	0.0460

45kg* is a closed cell cross-linked polyethylene foam sheet.

Tolerances other than the above may be negotiated.

Dimensional stability 22 hr at 70C < 2%.

Dimensional stability 24 hr at 90C < 5%.

If pinholes were created during the foaming process, no more than 6 holes of diameter 2mm per 1m² of sheet are acceptable.

This information on 45kg* chemically cross-linked polyethylene foam is presented to the best of our knowledge.

Data represents typical values measured on a 10 mm thick specimen and should be considered as guidelines only.