

Technical specification

Low density polyethylene flame retardant foam 24kg/m³ - LD24FR

Description closed-cell cross linked foams are manufactured by a unique process that uses only pure nitrogen gas as the blowing agent. Produced as rectangular sheets having process skins on all surfaces. Heat mouldable and are also UL – classified.

Properties	Unit	Value	Test method
Density (nominal)	kg/m ³	24	BS ISO 7214 1998
Cell Size (typical diameter)	mm	0.3	Internal
Tensile Strength	kPa	240	ISO 7214 1998
Elongation at break	%	115	
Tear strength	N/m	475	BS EN ISO 8067 1995
Compressive strength			
10% Compression	kPa	32	BS ISO 7214 1998
25% compression	kPa	51	BS ISO 7214 1998
40% compression	kPa	83	BS ISO 7214 1998
50% compression	kPa	115	BS ISO 7214 1998
Thermal Conductivity (mean temp 10 °C)	W/m.k	0.0351	ISO 8302 1991
Recommended working temperature	°C	-70/+100	Internal
Compression Set, 25% 22h 23 °C, 25 mm cell-cell			
0.5 h recovery	%	13	BS ISO 7214 1998
25h recovery	%	5.5	BS ISO 7214 1998
Compression set, 50% 22h 23 °C			
0.5h recovery	%	27	
24h recovery	%	19	
Flammability			
Aviation	Complies		FAR – 25.853 F 1a. 1ii
	Complies		JAR – 25.853 F 1a- 1ii
	Complies		CAA8/2 – 2.2b
Automotive	<100mm/min	Pass: 2mm and thicker	FMVSS.302 – Burn rate
Construction		Pass: 6-20 mm thick	DIN 4102 pt14-B1
		Pass: 3-13mm thick	UL94 HF1 + HF2
Horizontal Burn Rate			
5mm thick	mm/sec	Extinguishes and melts to flame	ISO 7214 1998
13mm thick	mm/sec		ISO 7214 1998
Shore hardness OO Scale, 10mm cell/cell thickness	OO	49	ISO 868 1985

This specification is given by our best knowledge and might be submitted to changes.