

**Pyroflex-VFR 2/140** is an open celled flame retardant, high resilience impregnated polyurethane foam. Originally developed as safety critical foam, it was developed to meet the stringent requirements of BS6853 and tested against EN 45545-2, for use as seat trim foam for underground rail seating. It can be supplied in sheets or cut parts either plain foam or self adhesive.

PROPERTY	REQUIREMENT	TEST METHOD
Density (kg/m <sup>3</sup> )	130 min	BS4443 Part 1 Method 2 (1988)
Thickness (mm)	Nominal +/-1	Internal Specification
Indentation Hardness (N)	220 min	BS4443 Part 2 Method 7A (1998)
Tensile Strength (Unaged) (KPa)	70 min	BS4443 Part 1 Method 3A (1988)
% Loss after Ageing	15 max	BS4443 Part 4 Method 11 (1980)
	15 max	BS4443 Part 4 Method 12 (1980)
Elongation at Break (Unaged %)	150 min	BS4443 Part 1 Method 3A
Compression Set at 75%		
Compression (%)	15 max	BS4443 Part 1 Method 6A (1988)
Smoke Index	50 max	NES 711 (Issue 2 Jan 81)
Toxicity Index	3.5 max	NES 713 (Issue 2 Apr 81)
Oxygen Index (%)	50 min	NES 714 (Issue 2 Feb 81)
Pounding Class	Class S	BS3379
Surface Spread of Flame	Class 1	BS476 Part 7 : 1987
Reaction to Fire	Class M1	Epiradiateur NFP 92-501
Rating to NF 16-101	Class F1	NFX 70-720 & NFX 70-100
Smoke Emission	A0 <9	BS6853 : 1987
Smoke Generation	D <sub>s</sub> <200	ISO 5659-2 :2012 @25kW/m <sup>2</sup> with pilot flame
Reaction to fire:Heat release, Smoke production and mass Loss rate (cone calorimeter method)	MAHRE kWm <sup>-2</sup> <50	ISO 5660:2015+A1:2009
Fire Behaviour/Toxic gases	CIT <sub>g</sub> <0.75	EN45545-2 (R21)

