



New Metals & Chemicals Ltd



PRODUCT INFORMATION

PVDF40

High Performance Foams

PVDF40 is a closed cell foam of density 38 kg/m^3 made from polyvinyl fluoride which is available in sheet form. The material will thermoform into simple and complex shapes. The material offers excellent chemical resistance and flammability properties. This provisional data characterises the foam.

<u>PROPERTY</u>	<u>TEST METHOD</u>	<u>UNITS</u>	<u>TYPICAL VALUE</u>
<u>Density</u>	ISO 845	Kg m^{-3}	38
<u>Max. operating temperature</u>	Internal	$^{\circ}\text{C}$	155
<u>Compression stress-strain Characteristics</u>			
10% compression	ISO 7214	kPa	118
25% compression	(1 st compression)	kPa	125
40% compression		kPa	156
50% compression		kPa	190
<u>Tensile strength</u>	ISO 1798	KPa	699
<u>Elongation</u>	ISO 1798	%	56
<u>Tear strength</u>	ISO 8067	N m^{-1}	608
	ASTM D624	N m^{-1}	2907
<u>Compression set</u>	ISO 7214		
(22 hrs @ 25% compression, 23°C, ½ hr recovery)	25mm cell-cell	% set	9
(22 hrs @ 25% compression, 23°C 24 hrs recovery)	25mm cell-cell	% set	4.5
(22 hrs @ 50% compression, 23°C, ½ hr recovery)	ASTM D3575 25mm cell-cell	% set	13.5
(22 hrs @ 50% compression, 23°C, 24 hrs recovery)	25mm cell-cell	% set	9
<u>Shore hardness</u>	ISO 868 (1985)	o oo A	34 72.5 26
<u>Cell size</u>	Internal	mm	0.32
<u>Thermal conductivity</u>	ISO 8301		
Mean temperature of 10°C		W/m.K	0.0323
Mean temperature of 50°C		W/m.K	0.0369
Mean temperature of 83°C		W/m.K	0.0416

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