



# New Metals & Chemicals Ltd



## PRODUCT INFORMATION

### PVDF30

#### High Performance Foams

PVDF30 is a closed cell foams of density 30 kg/m<sup>3</sup> 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 and meets BMS 8-371. 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 <sup>-3</sup>	30
<u>Max. operating temperature</u>	Internal	°C	110
<u>Compression stress-strain Characteristics</u> 10% compression 25% compression 40% compression 50% compression	ISO 7214 (1 <sup>st</sup> compression)	kPa kPa kPa kPa	24 47 79 111
<u>Tensile strength</u> <u>Elongation</u>	ISO 1798 ISO 1798	KPa %	400 151
<u>Tear strength</u>	ISO 8067	N m <sup>-1</sup>	1015
<u>Compression set</u>  (22 hrs @ 25% compression, 23°C, ½ hr recovery)  (22 hrs @ 25% compression, 23°C 24 hrs recovery)  (22 hrs @ 50% compression, 23°C, ½ hr recovery)  (22 hrs @ 50% compression, 23°C, 24 hrs recovery)	ISO 7214  25mm cell-cell  25mm cell-cell  ASTM D3575 25mm cell-cell  25mm cell-cell	  % set  % set  % set  % set	  6  3  11.5  7.5
<u>Thermal conductivity</u> Mean temperature of 0°C Mean temperature of 40°C Mean temperature of 83°C	ISO 8301 DIN52 612 ASTM C 518	W m <sup>-1</sup> k <sup>-1</sup> W m <sup>-1</sup> k <sup>-1</sup> W m <sup>-1</sup> k <sup>-1</sup>	0.033 0.038 0.046
<u>Flammability</u> Heat release Smoke density Smoke density Toxic gas emission Vertical bunsen burner Radiant panel	FAR/CS 25.853 (d) App F Pt IV FAR/CS 25.853 (d) App F Pt V ABD0031 para.7.3.2 ABD0031 para.7.3.2 FAR/CS 25.853 (a) App F Pt I (a), (1), (ii) FAR/CS 25.853 (a) App F Pt VI		Pass at 3 and 13mm Pass at 3 and 13mm Pass at 3 and 13mm Pass at 3 and 13mm Pass at 5 and 30mm Pass at 3 and 30mm

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