

# ZOTEK® F30

## High Performance Foams

# ZOTEK®

### Product information

#### Typical values

**ZOTEK® F30** is a closed cell, foam of density 30 kg/m<sup>3</sup> made from poly vinylidene fluoride available in sheet form. The foam will thermoform into simple and complex shapes. This product information sheet provides typical values for the foam and does not constitute a specification.

Property	Test Standard	Units	Typical Value	
<b>Apparent Density</b> Skin/Skin	BS EN ISO 7214:2012	kg/m <sup>3</sup> (pcf)	30 (1.9)	
<b>Cell Size</b> (cell diameter)	Internal	mm (in)	0.27 (0.01)	
<b>Compression Stress-Strain</b> 25% compression	BS EN ISO 7214:2012 1 <sup>st</sup> Compression	kPa (psi)	50 (7.25)	
<b>Tensile Strength</b>	BS EN ISO 7214:2012	kPa (psi)	400 (58)	
<b>Tensile Elongation</b>		%	190	
<b>Compression Set</b> 50% comp. / 22hr / 23°C ½ hr recovery	BS EN ISO 7214:2012 25mm cell-cell	% set	13	
<b>Thermal conductivity</b> Mean temperature of 0 °C (32 °F) Mean temperature of 40 °C (104 °F) Mean temperature of 80 °C (176 °F)	ISO 8301	W/m.K (Btu in/ft <sup>2</sup> .hr.°F)	0.033 (0.226) 0.038 (0.266) 0.046 (0.316)	
<b>Flammability</b> Heat Release Smoke Density Smoke Density Toxic Gas Emission Radiant Heat Panel Vertical Burner (60 sec)		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.7.4 FAR 25.856 (a) App F Pt VI FAR/CS 25.853(a) App F Pt I(a), (1), (ii)	Pass at 3, 13, & 25mm (⅛", ½" & 1") Pass at 13mm (½") Pass at 13mm (½") Pass at 13mm (½") Pass at 3 & 25mm (⅛" & 1") Pass at 3 & 25mm (⅛" & 1")	
<b>Recommended maximum operating temperature*</b>		Internal	°C (°F)	110 (230)

\* Recommended maximum operating temperature

The maximum operating temperature shown is defined as the temperature which will typically cause a linear shrinkage of 5% after a 24hr exposure period, using sample dimensions of 100mm x 100mm x 25mm. This figure is provided for general guidance only. The actual level of shrinkage the foam will undergo at any temperature is dependent on several system variables such as, sample dimensions, cell size, loading conditions and exposure period.

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