

ZOTEK[®]

ZOTEK® F30 High Performance Foams

Product information

Typical values

ZOTEK[®] **F30** is a closed cell, foam of density 30 kg/m³ 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
Apparent Density Skin/Skin	BS EN ISO 7214:2012	kg/m³ (pcf)	30 (1.9)
Cell Size (cell diameter)	Internal	mm (in)	0.27 (0.01)
Compression Stress-Strain	BS EN ISO 7214:2012	kPa (psi)	50 (7.25)
25% compression	1 st Compression		
Tensile Strength	BS EN ISO 7214:2012	kPa (psi)	400 (58)
Tensile Elongation		%	190
Compression Set			
50% comp. / 22hr / 23°C	BS EN ISO 7214:2012	% set	13
1/2 hr recovery	25mm cell-cell		
Thermal conductivity			
Mean temperature of 0 °C (32 °F)		W/m.K (Btu in/ft².hr.°F)	0.033 (0.226)
Mean temperature of 40 °C (104 °F)	ISO 8301		0.038 (0.266)
Mean temperature of 80 °C (176 °F)			0.046 (0.316)
Flammability			
Heat Release	FAR/CS 25.853 (d) App F Pt IV	Pass at 3, 13, & 25mm (1/8", 1/2" & 1")	
Smoke Density	FAR/CS 25.853 (d) App F Pt V	Pass at 13mm (½")	
Smoke Density	ABD0031 para.7.3.2.	Pass at 13mm (½")	
Toxic Gas Emission	ABD0031 para.7.4	Pass at 13mm (½")	
Radiant Heat Panel	FAR 25.856 (a) App F Pt VI	Pass at 3 & 25mm (1/8" & 1")	
Vertical Burner (60 sec)	FAR/CS 25.853(a) App F Pt I(a), (1), (i)	Pass at 3 & 25mm (1/8" & 1")	
Recommended maximum operating temperature*	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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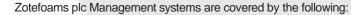


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