

ZOTEK® F OSU F

High Performance Foams

Product information

Typical values

ZOTEK® F OSU Flexible 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/m ³ (pcf)	30 (1.9)
Cell Size (cell diameter)	Internal	mm (in)	0.3 (0.01)
Compression Stress-Strain	BS EN ISO 7214:2012		
25% compression	1 st Compression	kPa (psi)	45 (6.5)
Tensile Strength		kPa (psi)	360 (52.2)
Tensile Elongation	BS EN ISO 7214:2012	%	165
Compression Set			
50% comp. / 22hr / 23°C	BS EN ISO 7214:2012	% set	15
½ hr recovery	25mm cell-cell		
Thermal conductivity			
Mean temperature of 38 °C (100 °F)	ISO 8301	W/m.K (Btu in/ft ² .hr.°F)	0.04 (0.27)
Flammability			
Heat Release	FAR/CS 25.853 (d) App F Pt IV	Pass at 3, 6 & 25 mm (1/8, 1/4 & 1")	
Smoke Density	FAR/CS 25.853 (d) App F Pt V	Pass at 13mm (1/2")	
Smoke Density	ABD0031 para.7.3.2.	Pass at 13mm (1/2")	
Toxic Gas Emission	ABD0031 para.7.4	Pass at 13mm (1/2")	
Vertical Burner (60 sec)	FAR/CS 25.853(a) App F Pt I(a), (1), (i)	Pass at 1.5, 13 & 25mm (1/16", 1/2" & 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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ZOTEFOAMS plc

675 Mitcham Road
Croydon
Surrey
CR9 3AL
United Kingdom

Tel: +44 (0) 20 8664 1600
Fax: +44 (0) 20 8664 1616
Email: info@zotefoams.com

ZOTEFOAMS inc

55 Precision Drive
Walton
Kentucky
41094
USA

Tel: +1 859 371
Freephone: (800) 362 8358 US only
Fax: +1 859 371 4734

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