

ZOTEK® F OSU R

High Performance Foams

ZOTEK®

Product information

Typical values

ZOTEK® F OSU Rigid is a closed cell, foam of density 74 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)	74 (4.6)
Cell Size (cell diameter)	Internal	mm (in)	0.22 (0.01)
Compression Stress-Strain	BS EN ISO 7214:2012		
25% compression	1 st Compression	kPa (psi)	200 (29)
Tensile Strength		kPa (psi)	1100 (160)
Tensile Elongation	BS EN ISO 7214:2012	%	100
Compression Set			
50% comp. / 22hr / 23°C	BS EN ISO 7214:2012	% set	18
½ hr recovery	25mm cell-cell		
Thermal conductivity			
Mean temperature of 10 °C (50 °F)		W/m.K	0.0323 (0.238)
Mean temperature of 50 °C (122 °F)	ISO 8301	(Btu in/ft ² .hr.°F)	0.0369 (0.270)
Mean temperature of 83 °C (181 °F)			0.0416 (0.306)
Flammability			
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 (⅛" & 1")
Vertical Burner (60 sec)	FAR/CS 25.853(a) App F Pt I(a), (1), (ii)		Pass at 25mm (1")
Recommended maximum operating temperature*	Internal	°C (°F)	157 (315)

* 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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