

ZOTEK® F40 HT

High Performance Foams

ZOTEK®

Product information

Typical values

ZOTEK® F40 HT is a closed cell, foam of density 40 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)	40 (2.5)
Cell Size (cell diameter)	Internal	mm (in)	0.24 (0.01)
Compression Stress-Strain 25% compression	BS EN ISO 7214:2012 1 st Compression	kPa (psi)	95 (14)
Tensile Strength	BS EN ISO 7214:2012	kPa (psi)	660 (96)
Tensile Elongation		%	110
Compression Set 50% comp. / 22hr / 23°C ½ hr recovery	BS EN ISO 7214:2012 25mm cell-cell	% set	15
Thermal conductivity Mean temperature of 0 °C (32 °F)		W/m.K (Btu in/ft ² .hr.°F)	0.032 (0.22)
Mean temperature of 25 °C (77 °F)	ISO 8301		0.035 (0.25)
Mean temperature of 80 °C (176 °F)			0.044 (0.3)
Recommended maximum operating temperature*	Internal	°C (°F)	155 (311)

* 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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