

ZOTEK® NC50

High Performance Foam

ZOTEK® high-performance technical foams are manufactured using Zotefoams’ unique autoclave technology. This process provides superior technical properties to satisfy the increasingly complex needs of high-tech manufacturers.

TYPICAL VALUES

The values provided represent data gathered from random samples of our production of the foam and should be considered as guidance for selecting a suitable grade for a given application. This does not constitute a specification.

PROPERTY	TEST STANDARD	UNITS	TYPICAL VALUE
Apparent Density			
Skin/Skin	ISO 7214:2012	kg/m ³ (pcf)	54 (3.4)
Cell/Cell			51 (3.2)
Cell Size (Cell Diameter)	Internal	mm (in)	0.34 (0.01)
Compression Stress-Strain			
25% Compression	ISO 7214:2012	kPa (psi)	305 (44)
50% Compression			440 (64)
Tensile Strength	ISO 7214:2012	kPa (psi)	1350 (196)
Tensile Elongation		%	85
Compression Set			
50% Comp./22 Hour/23°C	ISO 1856:2018 Method C	% set	
½ Hour Recovery			14
24 Hour Recovery			8
Flammability - Automotive	FMVSS.302 – Burn Rate	<100mm/min.	Pass at 6mm
Shore Hardness	ISO 868:2003	OO Scale	81
		O Scale	53
		A Scale	44.5
Thermal Conductivity			
Mean Temperature of 25°C (77°F)	ISO 8301	W/m.K (Btu in/ft ² .hr.°F)	0.037 (0.260)
Recommended Maximum Operating Temperature*	Internal	°C	175

THIS PROVISIONAL DOCUMENT IS BASED ON LIMITED BATCH DATA.

*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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