

# ZOTEK<sup>®</sup> NC35

## High Performance Foam

ZOTEK<sup>®</sup> 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
<b>Apparent Density</b>			
Skin/Skin	ISO 7214:2012	kg/m <sup>3</sup> (pcf)	34 (2.1)
Cell/Cell			32 (2)
<b>Cell Size (Cell Diameter)</b>	Internal	mm (in)	0.3 (0.01)
<b>Compression Stress-Strain</b>			
25% Compression	ISO 7214:2012	kPa (psi)	150 (22)
50% Compression			240 (35)
<b>Tensile Strength</b>	ISO 7214:2012	kPa (psi)	900 (131)
<b>Tensile Elongation</b>		%	85
<b>Compression Set</b>			
50% Comp./22 Hour/23°C	ISO 1856-C:2018	% set	12
½ Hour Recovery			7
24 Hour Recovery			7
<b>Flammability - Automotive</b>	FMVSS.302 – Burn Rate	<100mm/min.	Pass at 8mm
<b>Shore Hardness</b>	ISO 868:2003	OO Scale	75
		O Scale	42
		A Scale	33
<b>Thermal Conductivity</b>	ISO 8301	W/m.K (Btu in/ft <sup>2</sup> .hr.°F)	0.035 (0.246)
Mean Temperature of 25°C (77°F)			
<b>Recommended Maximum Operating Temperature*</b>	Internal	°C	170

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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