ZOTEFOAMS

ZOTEK® NC 50
High Performance Foams

ZOTEK®

Product information
Typical values

ZOTEK® NC 50 is closed cell foam of density 50 kg/m^3 made from polyamide 11 available in sheet form. The material will thermoform into simple and complex shapes.

Please note that the information provided is subject to change and does not constitute a specification.

THIS PROVISIONAL DOCUMENT IS BASED ON LIMITED BATCH DATA.

Property	Test Standard	Units	Typical Value
Apparent Density			
Skin/Skin	BS EN 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	BS EN ISO 7214:2012		
25% compression	1st Compression	kPa (psi)	305 (44)
50% compression			440 (64)
Tensile Strength	BS EN ISO 7214:2012	kPa (psi)	1350 (196)
Tensile Elongation		%	85
Compression Set			
50% comp. / 22hr / 23°C	BS EN ISO 1856-C:2018		
½ hr recovery	25mm cell-cell	% set	14
24hr recovery			8
Flammability **Automotive**	FMVSS.302 – Burn rate	<100mm/min.	Pass at 6mm
Shore Hardness	BS EN ISO 868:2003	OO Scale	81
		O Scale	53
		A Scale	44.5
Thermal Conductivity	ISO 8301	W/mK	0.037
Mean Temperature	25 °C (77 °F)	(Btu in/ft².hr.°F)	(0.260)
Recommended maximum operating temperature*	Internal	°C	175

* 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 Management systems are covered by the following:

UK Authorised Economic Operator

Quality
FM 01870
ISO 9001:2015

Safety
OHS 52538
ISO 45001: 2018

Environment
EMS 36270
ISO 14001:2015

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