

ZOTEK® NC 70

High Performance Foams



Product information

Typical values

ZOTEK® NC 70 is closed cell foam of density 70 kg/m³ 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)	77 (4.8)
Cell/Cell			73 (4.6)
Cell Size (cell diameter)			
	Internal	mm (in)	0.35 (0.01)
Compression Stress-Strain			
25% compression	BS EN ISO 7214:2012	kPa (psi)	485 (70)
50% compression	1 st Compression		670 (97)
Tensile Strength			
	BS EN ISO 7214:2012	kPa (psi)	1865 (270)
Tensile Elongation			
		%	85
Compression Set			
50% comp. / 22hr / 23°C	BS EN ISO 1856-C:2018		
½ hr recovery	25mm cell-cell	% set	16
24hr recovery			9
Flammability			
Automotive	FMVSS.302 – Burn rate	<100mm/min.	Pass at 4mm
Shore Hardness			
	BS EN ISO 868:2003	OO Scale	88
		O Scale	60
		A Scale	51
Thermal Conductivity			
	ISO 8301	W/mK	0.041
Mean Temperature	25 °C (77 °F)	(Btu in/ft ² .hr.°F)	(0.286)
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:



Quality
FM 01870
ISO 9001:2015



Safety
OHS 52538
ISO 45001: 2018



Environment
EMS 36270
ISO 14001:2015

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