

ZOTEK® T P55

High Performance Foams

ZOTEK®

Product information

Typical values

ZOTEK® T P55 is a closed cell, foam of density 55 kg/m³ made from polyether block amide 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)	62 (3.8)
Cell/Cell			55 (3.5)
Cell Size (cell diameter)	Internal	mm (in)	0.2
Compression Stress-Strain			
25% compression	BS EN ISO 7214:2012	kPa (psi)	140 (20)
50% compression	1 st Compression		230 (33)
Tensile Strength	BS EN ISO 7214:2012	kPa (psi)	1100 (160)
Tensile Elongation		%	250
Tear Strength			
	BS EN ISO 8067:2008		
	Method A	N/m	3600
	Method B		5000
Compression Set			
50% comp. / 22hr / 23°C	BS EN ISO 1856:2018 Method C		
½ hr recovery	25mm cell-cell	% set	18
24hr recovery			13
Hardness	ASTM D-2240	Asker C	42
Resilience	ISO 8307	%	40
Flammability			
Automotive	FMVSS.302 – Burn rate	<100mm/min.	Pass at 4mm
Thermal conductivity			
Mean temperature of 0 °C (32 °F)		W/m.K	0.033
Mean temperature of 25 °C (77 °F)	ISO 8301	(Btu in/ft ² .hr.°F)	0.036
Mean temperature of 80 °C (176 °F)			0.042
Recommended maximum operating temperature	Internal	°C (°F)	150 (302)

* 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.

ZOTEK® T P55

High Performance Foams

ZOTEK®

Exclusion of Liability

Any information contained in this document is, to the best of the knowledge and belief of Zotefoams plc and of Zotefoams Inc. (together herein referred to as ZOTEFOAMS), accurate. Any liability on the part of ZOTEFOAMS or any subsidiary or holding company of ZOTEFOAMS for any loss, damage, costs or expenses directly or indirectly arising out of the use of such information or the use, application, adaptation or processing of any goods, materials or products described herein is, save as provided in ZOTEFOAMS' conditions of sale ("Conditions of Sale"), hereby excluded to the fullest extent permitted by law. Where ZOTEFOAMS' goods or materials are to be used in conjunction with other goods or materials, it is the responsibility of the user to obtain from the manufacturers or suppliers of the other goods or materials all technical data and other properties relating to those other goods or materials. Save as provided in the Conditions of Sale no liability can be accepted in respect of the use of ZOTEFOAMS' goods or materials in conjunction with any other goods or materials.

Where ZOTEFOAMS' goods or materials are likely to come into contact with foodstuffs or pharmaceuticals, whether directly or indirectly, or are likely to be used in the manufacture of toys, prior written confirmation of compliance with relevant legislative or regulatory standards for those applications may be requested from ZOTEFOAMS, if appropriate. Save as provided in the Conditions of Sale no liability can be accepted for any damage, loss or injury directly or indirectly arising out of any failure by the user to obtain such confirmation or to observe any recommendations given by or on behalf of ZOTEFOAMS.

ZOTEFOAMS MAKES NO WARRANTIES EXPRESS OR IMPLIED, EXCEPT TO THE EXTENT SET OUT IN THE CONDITIONS OF SALE, AND HEREBY SPECIFICALLY EXCLUDES ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ANY GOODS, MATERIALS OR PRODUCTS DESCRIBED HEREIN.



Quality
FM 01870 / ISO 9001:2015



Safety
OHS 52538 / ISO 45001:2018



Environment
EMS 36270 / ISO 14001:2015

ZOTEFOAMS plc
675 Mitcham Road
Croydon, Surrey CR9 3AL
United Kingdom
Tel: +44 (0) 20 8664 1600
Email:
azote@zotefoams.com

ZOTEFOAMS Poland SP z.o.o.
Parkowa 26
49-318 Skarbimierz,
Osiedle

ZOTEFOAMS inc
55 Precision Drive Walton,
Kentucky 41094 USA
Tel: +1 859 371

If you would like more information email: zotek@zotefoams.com or visit our website www.zotefoams.com ZOTEK® is a registered trademark of Zotefoams plc. All rights reserved.