

BALLISTIC™

Torso Protection

Ballistic grade impact protection when it matters most.

Ultra-lightweight, thin and class-leading impact performance are the hallmarks of Delta Three Oscar's new Ballistic™ grade, closed cell impact protection materials for back face deformation (BFD) mitigation.

Engineered for mobility and freedom of movement in the field, Ballistic™ performs consistently across various warfare conditions, from harsh and humid jungle conditions to dry and hot desert combat.

Product Feature

- 3X lighter than traditional BFD foams
- High dissipation of energy at a low-profile thickness
- Thermoformable into complex shapes
- High quality, consistent, fine cell structure with isotropic, uniform properties throughout the sheet
- Reliable and consistent performance across a wide range of temperatures and humidity levels
- Available in 4 densities to accommodate any plate design



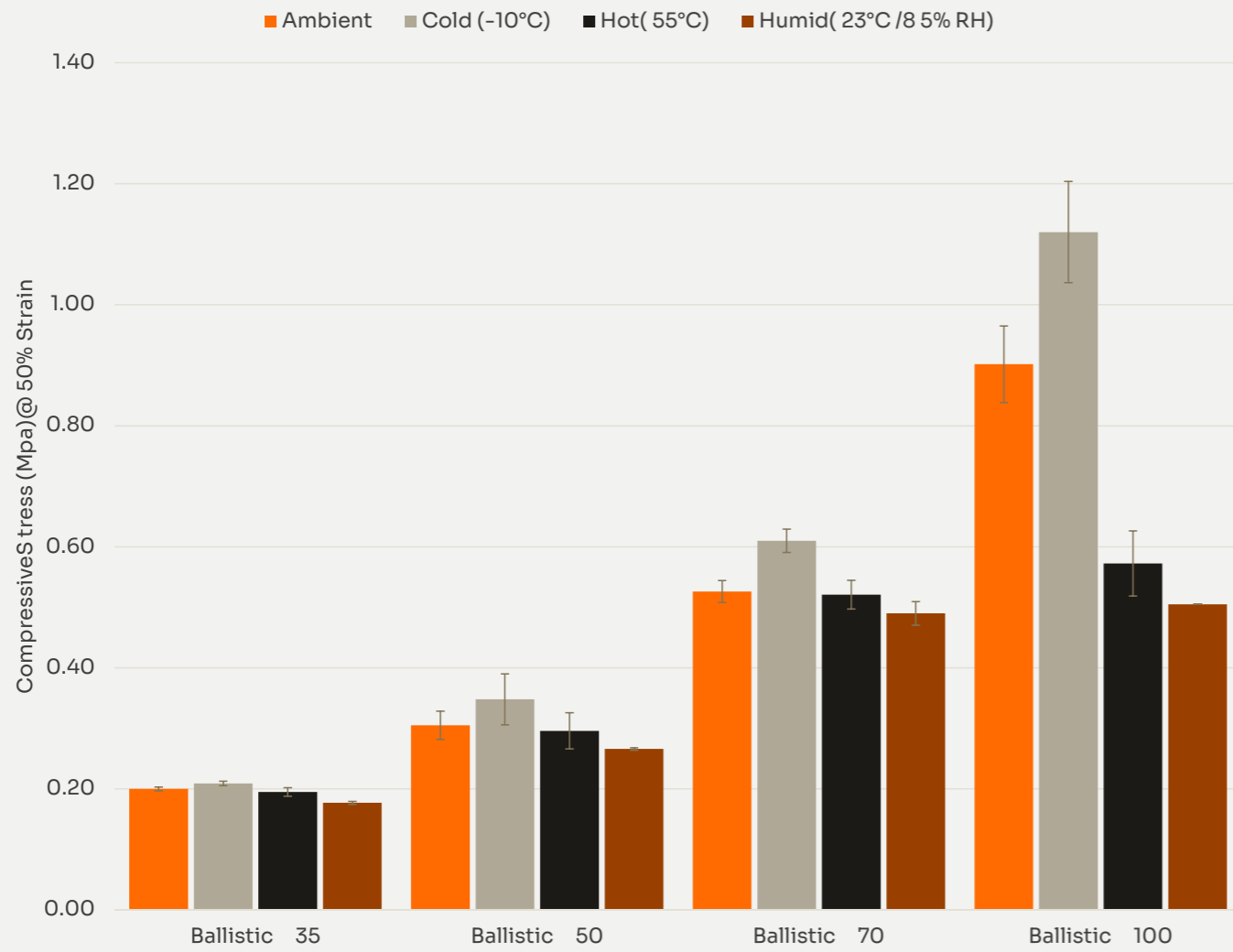
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Values shown represent typical product characteristics. For full details including material properties and product tolerances, please request SOQ document from D3O representative. The information provided is not intended to and does not create any warranties, expressed or implied, including any warranty of merchantability of fitness for a particular purpose. In accordance with the Company's policy of continuous improvement, D3O reserves the right to apply such improvements to its products and materials without notice. This data sheet shall not be reproduced or amended without the written consent of Design Blue Limited.

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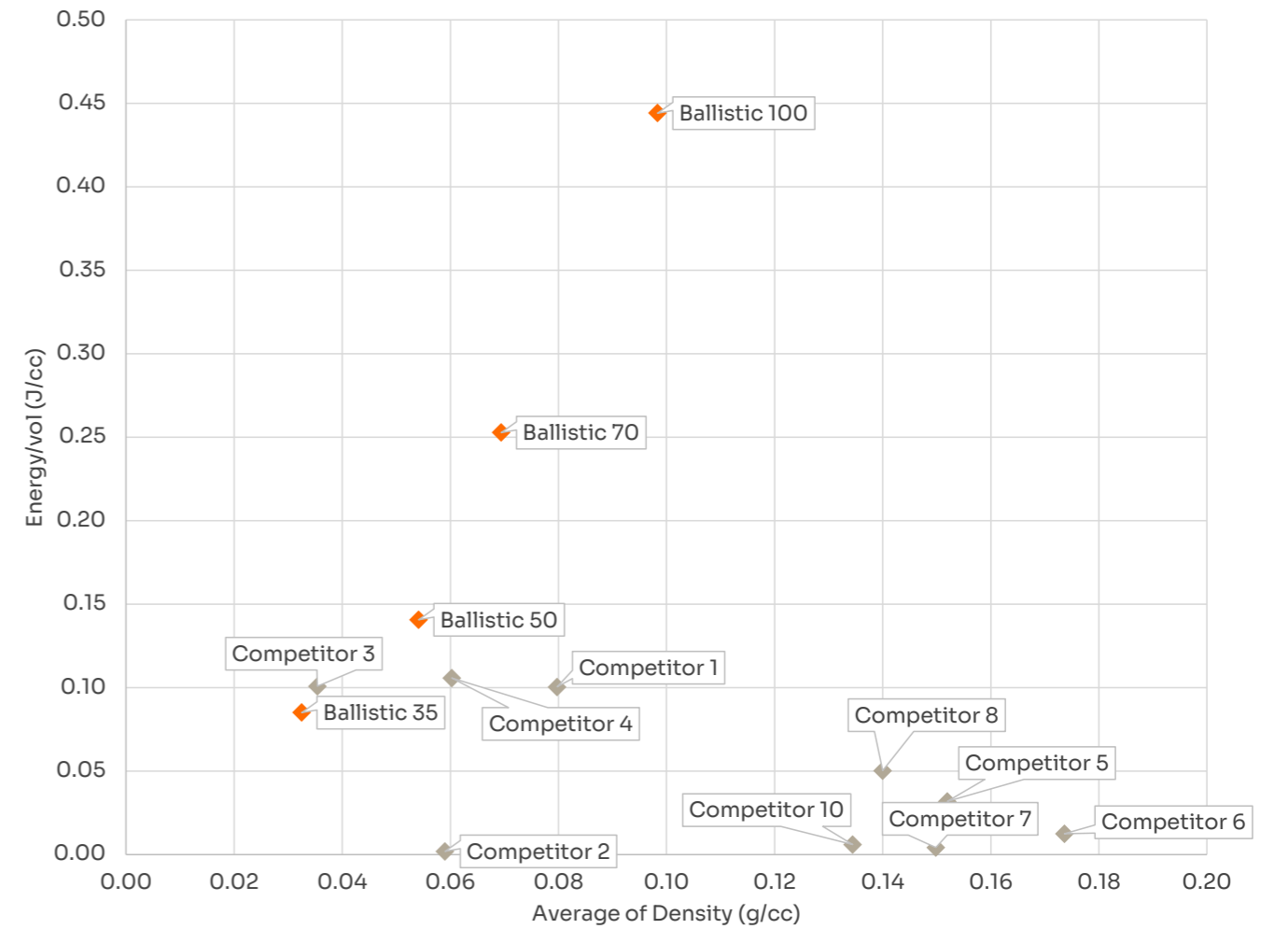
Temperature Stability



a.

b.

Impact vs. Density



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Product Details

Product Name	Ballistic™ 35 Skived 2mm Sheet	Ballistic™ 35 Skived 4mm Sheet	Ballistic™ 35 Skived 6mm Sheet	Ballistic™ 35 Skived 8mm Sheet	Ballistic™ 35 Skived 10mm Sheet
Product Code	14854	14757	14758	14855	14861
Dimensions (mm)	1050 x 1000	1050 x 1000	1050 x 1000	1050 x 1000	1050 x 1000
Thickness (mm)	2	4	6	8	10
Weight (lb/ft³)	2.0	2.0	2.0	2.0	2.0
Density (g/cm³)	0.035	0.035	0.035	0.035	0.035

Product Name	Ballistic™ 50 Skived 2mm Sheet	Ballistic™ 50 Skived 4mm Sheet	Ballistic™ 50 Skived 6mm Sheet	Ballistic™ 50 Skived 8mm Sheet	Ballistic™ 50 Skived 10mm Sheet
Product Code	14857	14858	14859	14860	14861
Dimensions (mm)	882 x 810	882 x 810	882 x 810	882 x 810	882 x 810
Thickness (mm)	2	4	6	8	10
Weight (lb/ft³)	3.8	3.8	3.8	3.8	3.8
Density (g/cm³)	0.05	0.05	0.05	0.05	0.05

Product Name	Ballistic™ 70 Skived 2mm Sheet	Ballistic™ 70 Skived 4mm Sheet	Ballistic™ 70 Skived 6mm Sheet	Ballistic™ 70 Skived 8mm Sheet	Ballistic™ 70 Skived 10mm Sheet
Product Code	14862	14759	14760	14863	14864
Dimensions (mm)	750 x 700	750 x 700	750 x 700	750 x 700	750 x 700
Thickness (mm)	2	4	6	8	10
Weight (lb/ft³)	4.56	4.56	4.56	4.56	4.56
Density (g/cm³)	0.07	0.07	0.07	0.07	0.07

a.

b.

Product Name	Ballistic™ 100 Skived 2mm Sheet	Ballistic™ 100 Skived 4mm Sheet	Ballistic™ 100 Skived 6mm Sheet	Ballistic™ 100 Skived 8mm Sheet	Ballistic™ 100 Skived 10mm Sheet
Product Code	15207	15208	15209	15210	15211
Dimensions (mm)	700 x 650	700 x 650	700 x 650	700 x 650	700 x 650
Thickness (mm)	2	4	6	8	10
Weight (lb/ft³)	6.74	6.74	6.74	6.74	6.74
Density (g/cm³)	0.1	0.1	0.1	0.1	0.1

Material Details

Material Properties						
Property	Method Ref	Test Condition	Ballistic™ 35	Ballistic™ 50	Ballistic™ 70	Ballistic™ 100
Hardness	ASTM D2240 - 05 (2010)	3s	64.4	69.1	81.6	89.1
Density	ISO 845:2009	N/A	0.033	0.052	0.072	0.098
Tensile Strength at Break	ISO 37:2017 Type 1	500 mm/min	2.88	5.60	8.13	9.16
Elongation at Break	ISO 37:2017 Type 1	500 mm/min	94%	95%	93%	91%
Compressive Strength	DTS006	25% Compressive Strain	0.13	0.20	0.37	0.77
Compressive Strength	DTS006	50% Compressive Strain	0.20	0.31	0.53	0.90