D3O Product Data Sheet

ZERO[™]

Recycled Material

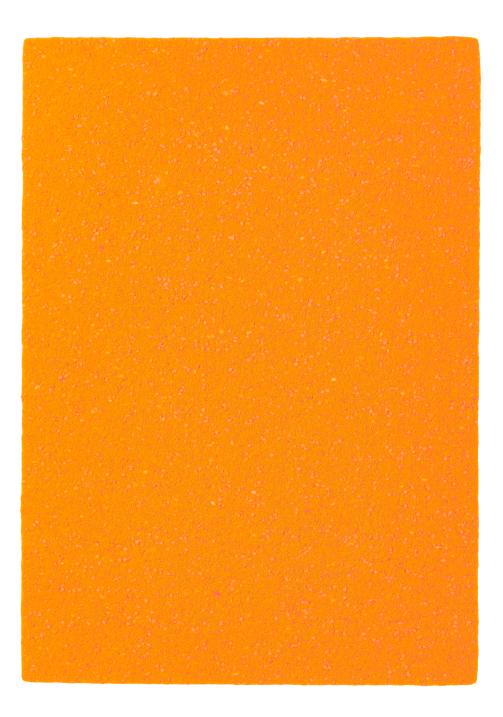
Mitigate Fear. Prevent Injury.

D3O's dilatant materials are designed to absorb and dissipate energy in response to blunt force impact.

D3O® Recycled Foams contains two grades of D3O® Zero™ materials. This recycled material is the latest innovation from impact protection experts at D3O. D3O® Zero™ has been designed to protect the things that matter while innovating the manufacturing process to reduce waste. This new, recycled protective material is suitable for a range of applications.

Available in four thicknesses and two densities, D3O® Zero™ is suitable for a range of applications requiring impact protection.

To create D3O® Zero™, surplus D3O® material from D3O factories is ground down and mixed with new foams, and the mixture is shaped into large cylindrical bales of D3O® Zero™. Next, D3O skives sheets in various thicknesses ranging from 2mm to 10mm for customers. The material can then be die cut of thermoformed to suit various protective applications.





©2024 Design Blue Limited. All rights reserved.

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.

ZERO[™]

Recycled Material

Product Details

Code name	Synonym	Density	Hardness	Tensile strength	Split tear strength	Elongation at break	Compressive strength	Flexural	Tensile modulus	Deceleration 4.5 J	Energy return 4.5 J	Compression	Water absor- bency	Impact protection (10 J)	Impact protection (20 J)	Accelerated ageing (heat) (10J)	Accelerated ageing (hu- midity) (10J)	Recycled
RF001	D30° Zero™ (low density)	231.0	49.5	0.3	0.6	79.5	320.0	0.4	0.48	90.2	23	3.9	302.0	17.0	39.0	9.9	-32.3	68.0
RF002	D30° Zero™ (mid density)	278.0	58.6	0.4	0.7	76.6	490.0	0.8	0.84	57.1	22	4.0	248.0	8.9	27.8	14.8	-13.5	69.0
Method reference*		ISO 845:2009	ASTM D2240 - 05 (2010)	ISO 1798:2008	SATRA TM65	ISO 1798:2008	ASTM D3575-14D	DTS052	DTS061	DTS002-2	ASTM F614-99 (2006)	EN ISO 1856	DTS028	EN 1621:1 (2.5 Kg, 10J)	EN 1621:1 (2.5 Kg, 20J)	BS EN ISO 2440:2000 (ageing)*	BS EN ISO 2440:2000 (ageing)*	N/A
Units		kg/m3	Shore 00	N/mm2	N/mm	%	kPa	MPa	MPa	g	%	%	%	kN	kN	%	%	%



. c.





KEY FEATURES

- a. range of thicknesses available
- b. recycled D30° material
- c. low profile and flexible



©2024 Design Blue Limited. All rights reserved.

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.