

# ZERO™

## Recycled Material

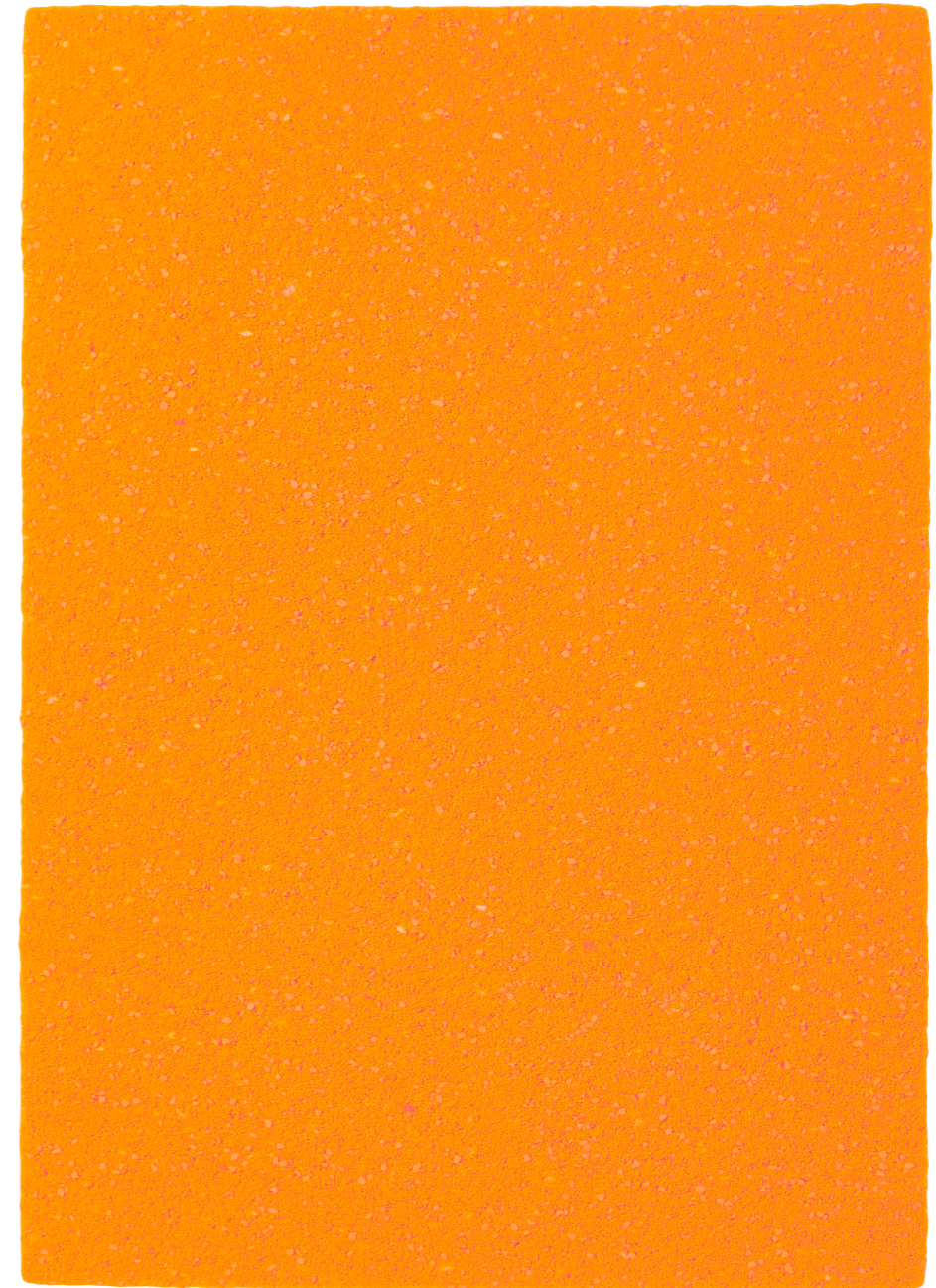
### Mitigate Fear. Prevent Injury.

**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 or thermoformed to suit various protective applications.





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### Product Details

Code name	Synonym	Density	Hardness	Tensile strength	Split tear strength	Elongation at break	Compressive strength	Flexural modulus	Tensile modulus	Deceleration 4.5 J	Energy return 4.5 J	Compression set	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	%	%	%

a.



b.



c.



### KEY FEATURES

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