

AEROMAX

Sheets

Mitigate Fear. Prevent Injury.

D30's materials are designed to absorb and dissipate energy in response to blunt force impact.

D3O AeroMax is a lightweight, versatile set foam material available in skived sheet formats. It can be used in impact protection, anti-vibration and shock absorption applications. AeroMax is an ideal material for applications that require optimum blend of comfort and protection.

Product Features

- Suitable for low to moderate impact and shock energies
- Suitable for low to moderate vibration frequencies
- Available in 2, 4, 6, 8 and 10mm thicknesses
- Available in 10m rolls and/or 0.5mm increments upon request
- Available in large sheets
- Formulated without the use of PFAS or organotin compound

Product Details

Material	Aeromax				
Product Name	Skived 2mm	Skived 4mm	Skived 6mm	Skived 8mm	Skived 10mm
Product Code	13440	13441	13657	14195	13591
Colour	Orange	Orange	Orange	Orange	Orange
Dimensions (mm)	1000 x 1000	1000 x 1000	1000 x 1000	1000 x 1000	1000 x 1000
Thickness (mm)	2	4	6	8	10
Material Type	Foam	Foam	Foam	Foam	Foam



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Physical Properties

Property	Unit	Test Method	Test Condition	Value
Thickness	mm	-	-	10
Density	kg/m ³	ISO 845:2009	-	208
Hardness	Shore OO	ASTM D2240-05 (2010); 3s	23°C, 50% RH	33
Compressive Stress at 25% Strain	MPa	ISO 3386-1:1997; 100mm/min	23°C, 50% RH	0.07
Compressive Stress at 50% Strain	MPa	ISO 3386-1:1997; 100mm/min	23°C, 50% RH	0.12
Compression Set	%	EN ISO 1856:2000; Method B 50% Compression, 72 h	23°C, 50% RH	1.7
Dimensional Stability, Max Change	%	EN ISO 2440:2000	72 hrs at 125°C	<1%
			20 hrs at 85°C 100% RH	<1%
Tensile Strength	MPa	ISO 1798:2008; 500mm/min	23°C, 50% RH	0.51
Tensile Elongation at Break	%	ISO 1798:2008; 500mm/min	23°C, 50% RH	203
Tear Strength	n/mm	SATRA TM65/ BS 5131-2.6:1979; 100mm/min	23°C, 50% RH	0.59
Flexural Stress at 10% Strain	MPa	DTS052*; 100mm/min	23°C, 50% RH	0.02

Dynamic Performance

Property	Unit	Test Method	Test Condition	Value
10J Impact Peak Transmitted Force	kN	EN 1621:1 2.5kg	23°C, 50% RH	4.4
20J Impact Peak Transmitted Force	kN	EN 1621:1 2.5kg	23°C, 50% RH	17.7
30J Impact Peak Transmitted Force	kN	EN 1621:1 5kg	23°C, 50% RH	33.4
50J Impact Peak Transmitted Force	kN	EN 1621:1 5kg	23°C, 50% RH	n/a
4.2J Footwear Deceleration	g	SATRA TM142/ ASTM F1614-99 (2006)	23°C, 50% RH	17.2
4.2J Footwear Energy Return	%	ASTM F1614-99 (2006)	23°C, 50% RH	18.5

Environmental Properties

Property	Unit	Test Method	Test Condition	Value
Water Absorption, Weight Gain	%	DTS028**; 168hrs	23°C	24
Bio-based Content, Total Organic Carbon	%	ISO-16620-2:2019 Method C (AMS) TOC	-	49
PFAS Content (TOF)	ppm	ASTM D7359:2018 - 10 ppm detection limit	Not Detected	Not Detected
Organotin Content	ppm	CEN ISO/TS 16179: 2012 - GC-MS	Not Detected	Not Detected

* 17.5mm radius semi circular striker deflects sample sitting on supports with span length of 50mm at a rate of 100mm/min. The Flexural Stress (Mpa) at 10% Flexure Strain is calculated.
 ** Samples submerged in water maintained at 23C for 168hrs. After submersion, excess surface water removed with dry cloth. Samples weighed before and after testing and a percentage difference is calculated