

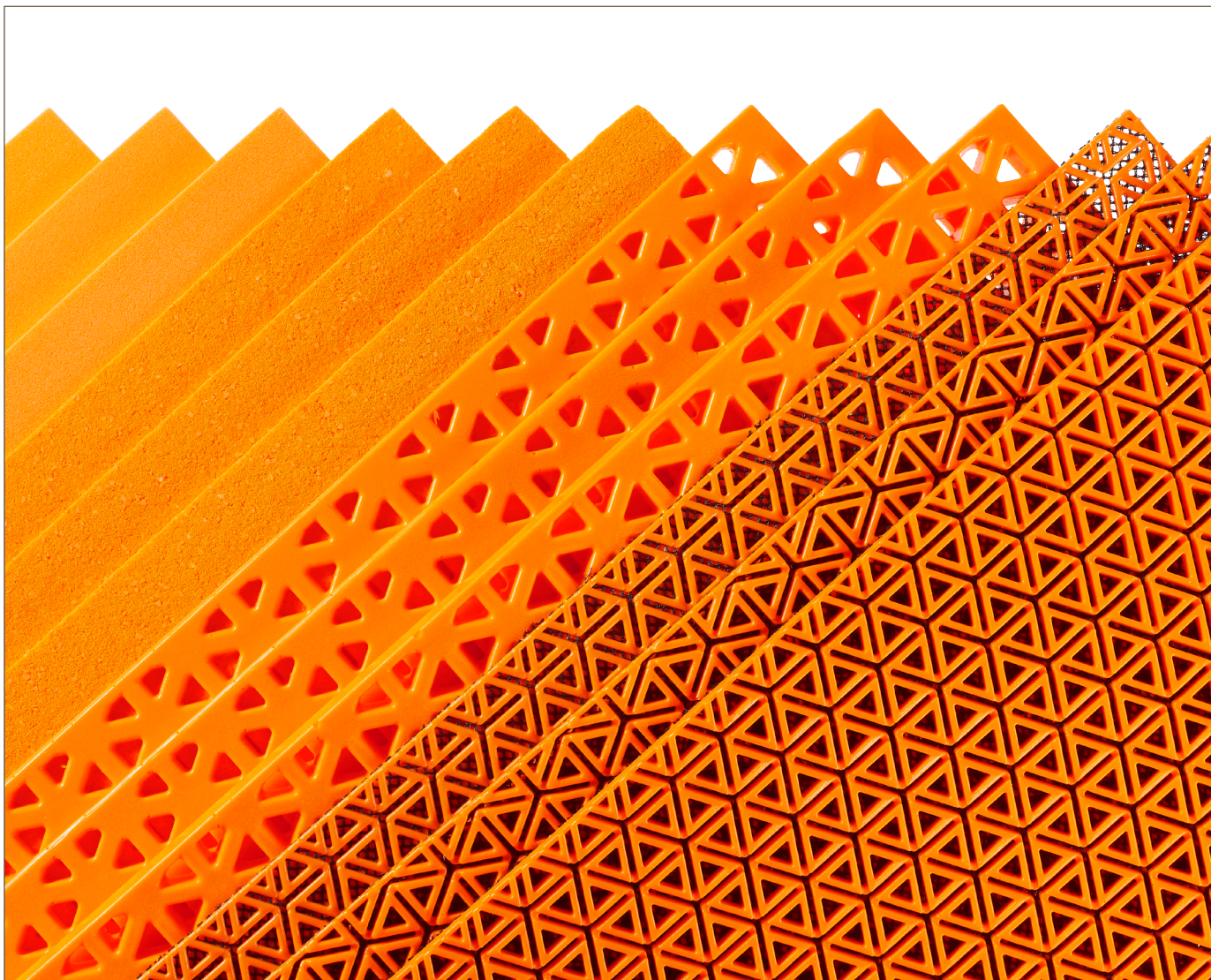
SHEET MATERIALS

Delta Three Oscar™ has various sheet material options designed for simple integration into your product range:

- Fastest route to market with a Delta Three Oscar™ solution, no development required
- Easy to post-process and integrate within finished product
- High-impact performing, low profile, flexible solutions
- 4 different sheet constructions
- 8 different material formulations

No matter the application, Delta Three Oscar™ has sheet options to help take your product to the next level.

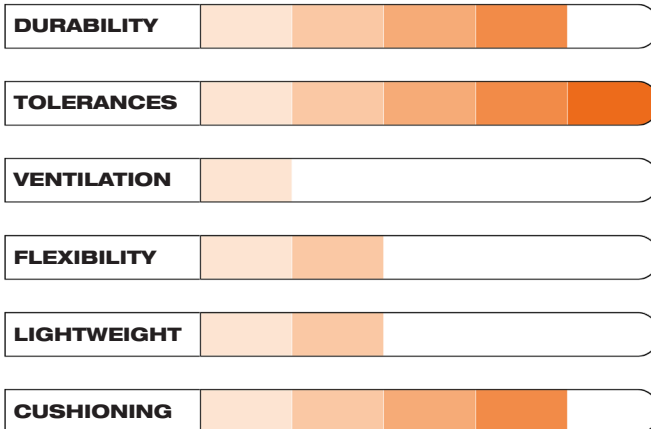
Delta Three Oscar™ uses rate sensitive, soft and flexible D3O® materials for shock absorption and impact protection applications.



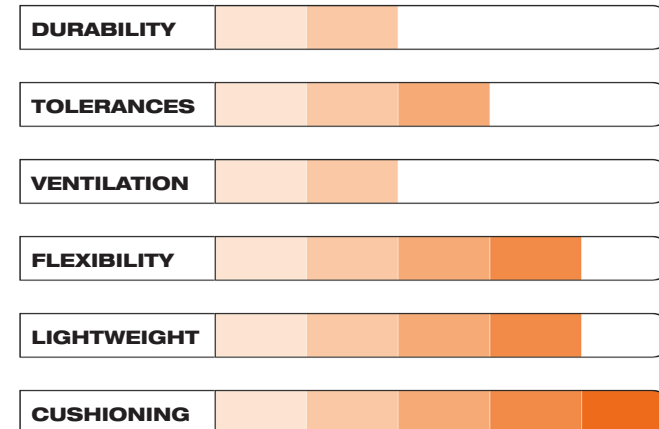
STEP 1: PICK THE TYPE OF SHEET



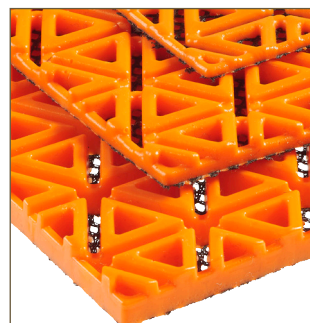
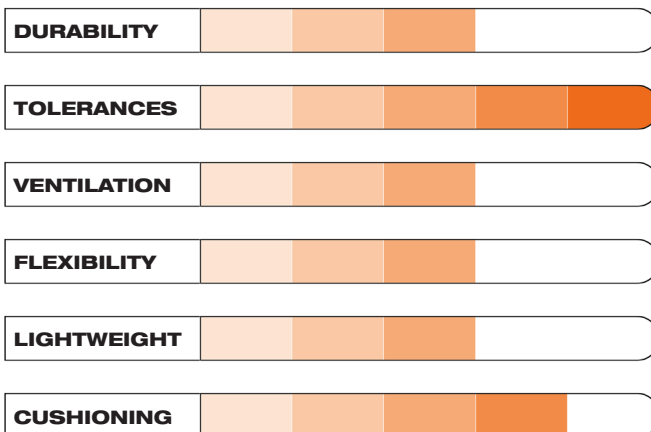
**SOLID SHEET
(SKINNED)**



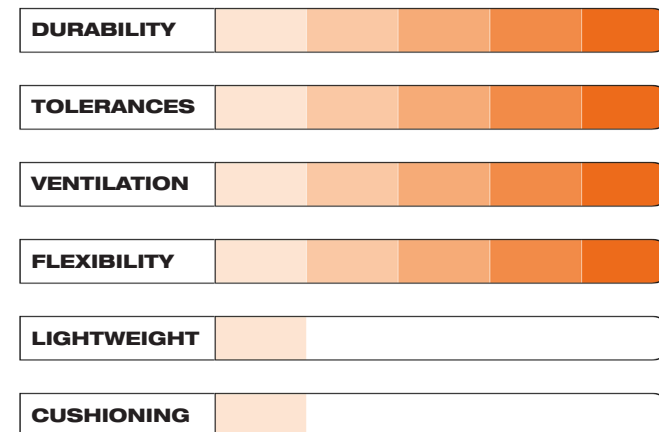
SKIVED SHEET



TRIVENT SHEET



**IMPACT PRINT™
SHEET**



STEP 2: PICK THE D3O® FORMULATION

HIGH DENSITY
HIGH IMPACTS

Formulation	Impact type	Density (4mm)	Hardness (4mm)	Temperature stability	Material Type
Impact Print™	High energy	1.13	55 (Shore A)	Great (geometry)	Set Elastomer
XTi	High energy	0.52	76 (Shore 00)	Good	Set Foams
ST	High energy	0.48	76 (Shore 00)	Low	
DECELL	Low-mid energy	0.39	70 (Shore 00)	Good	
AERO	Low-mid energy	0.37	58 (Shore 00)	Average	
AEROMAX	Low-mid energy	0.23	40 (Shore 00)	Average	
US Decell TRUST* (Berry Compliant)	Low-mid energy	0.22	58 (Shore 00)	Good	
ZERO Mid	Low energy	0.29	60 (Shore 00)	Great	Recycled Foams
ZERO Low	Low energy	0.24	49 (Shore 00)	Great	

LOW DENSITY
LOW IMPACTS

*US Decell TRUST: density and hardness data based on 5mm sheet

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Values shown represent typical product characteristics.

For full details including material properties and product tolerances, please request SOQ document from Delta Three Oscar representative.

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www.DELTATHREEOSCAR.com

STEP 3: PICK THE DIMENSIONS

HIGH DENSITY
HIGH IMPACTS



Formulation	Solid 369 x 255mm	Skived 337 x 305mm	Skived 1000 x 1000mm	TriVent 490 x 290mm	Impact Print™ 500 x 500mm
Impact Print™					2, 4, 6mm
XTi	4, 6, 10mm			4, 6, 10mm	
ST	4, 6, 10mm			4, 6, 10mm	
DECELL	4, 6mm				
AERO	4, 6mm			4, 6mm	
AEROMAX			2, 4, 6, 8, 10mm		
US Decell TRUST (Berry-Compliant)		2, 4, 6, 10mm			
ZERO Low/Mid			2, 4, 6, 8, 10mm		

LOW DENSITY
LOW IMPACTS

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Values shown represent typical product characteristics.

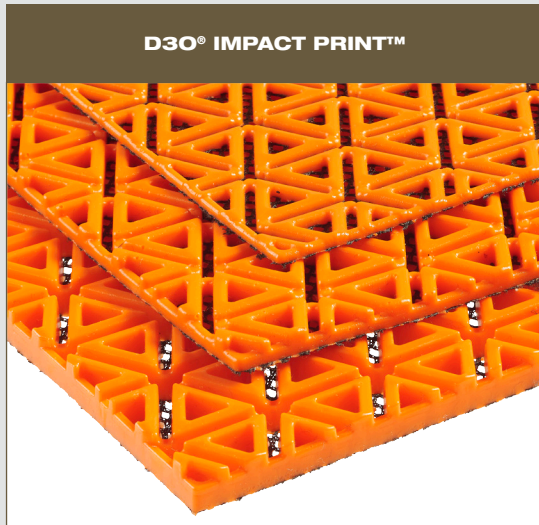
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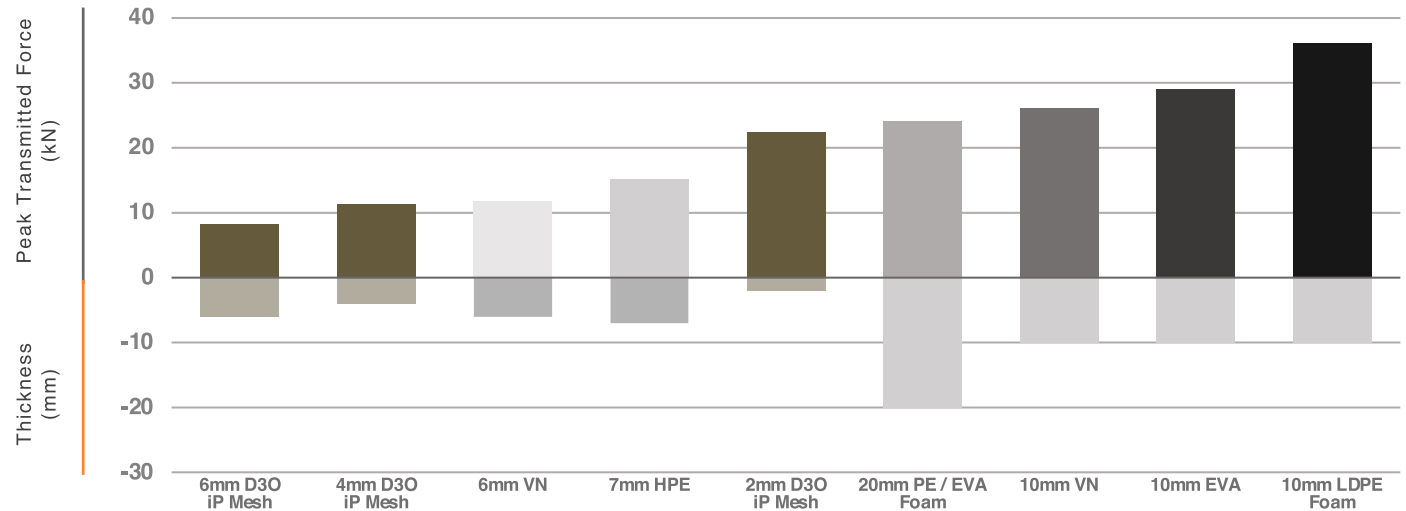
D3O® IMPACT PRINT™ (iP)

iP sheet delivers the most flexible, durable protection on the market. Its open geometry combined with mesh fabric provides complete freedom of movement, increased air flow and breathability.



SE

D3O® Impact Print™, Comparative Impact Test (10 J)



Material	D3O® Impact Print™		
Product Name	iP™ Mesh 2mm	iP™ Mesh 4mm	iP™ Mesh 6mm
Product Code	14205	14055	14056
Colour	Orange	Orange	Orange
Dimensions (mm)	500 x 500	500 x 500	500 x 500
Thickness (mm)	2	4	6
Weight (g)	301	613	911
Material Code	SE006	SE006	SE006
Material Type	Set Elastomer	Set Elastomer	Set Elastomer
Fabric	Mesh	Mesh	Mesh

D3O® XTi

Optimised for high impact energies, XTi provides soft, flexible and lightweight impact protection frequently used for limb protectors in motorcycle and sport.

TRIVENT SHEET

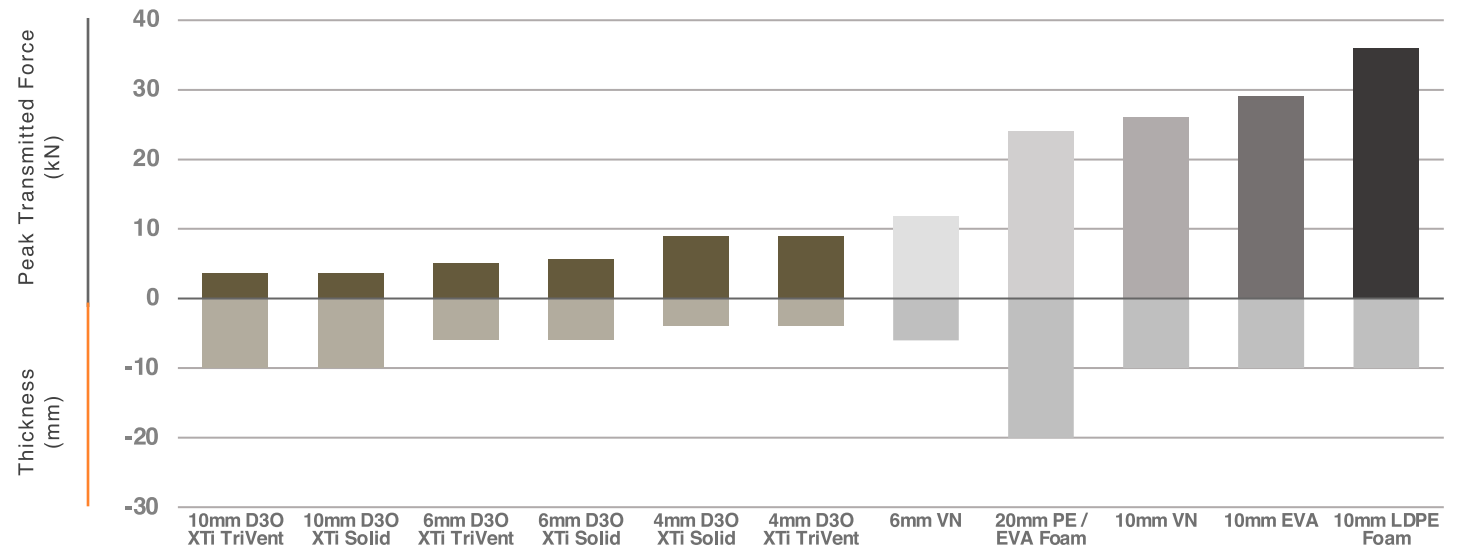


SOLID SHEET
(SKINNED)



SF

D3O® XTi, Comparative Impact Test (10 J)



Material	D3O® XTi					
Product Name	XTi Solid 4mm Sheet	XTi Solid 6mm Sheet	XTi Solid 10mm Sheet	XTi TriVent 4mm Sheet	XTi TriVent 6mm Sheet	XTi TriVent 10mm Sheet
Product Code	11081	11082	14260	14047	14048	14050
Colour	Orange	Orange	Orange	Orange	Orange	Orange
Dimensions (mm)	369 x 255	369 x 255	369 x 255	490 x 290	490 x 290	490 x 290
Thickness (mm)	4	6	10	4	6	10
Weight (g)	196	294	490	279	385	583
Material Code	SF005	SF005	SF005	SF005	SF005	SF005
Material Type	Set Foam	Set Foam	Set Foam	Set Foam	Set Foam	Set Foam

D30® ST

Designed for markets where high impact energies are experienced, ST is a soft, flexible and versatile material frequently used within limb, back and chest protectors.

TRIVENT SHEET

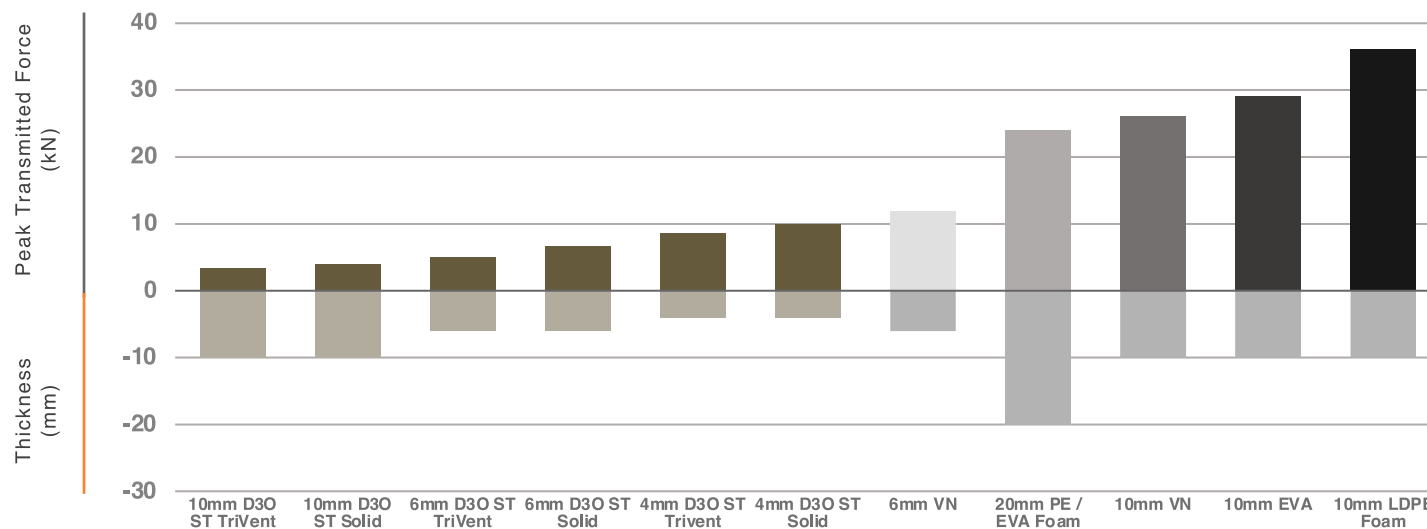


SOLID SHEET
(SKINNED)



SF

D30® ST, Comparative Impact Test (10 J)



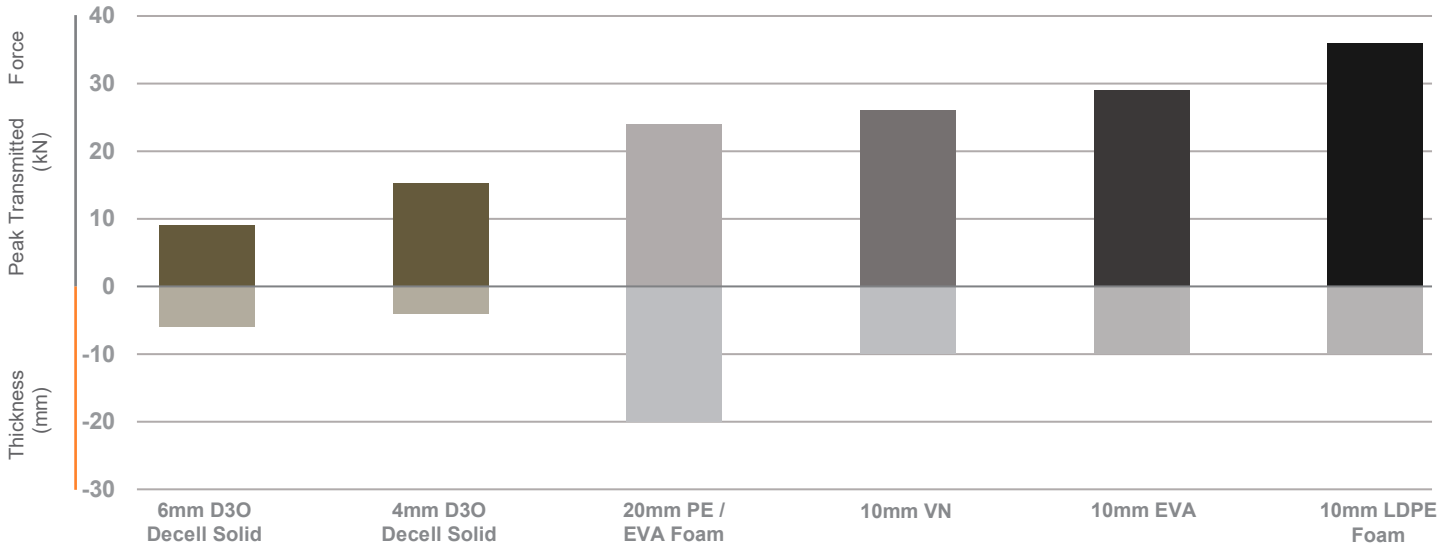
Material	D30® ST					
Product Name	ST Solid 4mm Sheet	ST Solid 6mm Sheet	ST Solid 10mm Sheet	ST TriVent 4mm Sheet	ST TriVent 6mm Sheet	ST TriVent 10mm Sheet
Product Code	10620	10983	14259	14208	14209	14210
Colour	Orange	Orange	Orange	Orange	Orange	Orange
Dimensions (mm)	369 x 255	369 x 255	369 x 255	490 x 290	490 x 290	490 x 290
Thickness (mm)	4	6	10	4	6	10
Weight (g)	188	282	470	234	319	477
Material Code	SF001	SF001	SF001	SF001	SF001	SF001
Material Type	Set Foam	Set Foam	Set Foam	Set Foam	Set Foam	Set Foam

D30® DECELL

Decell is the material of choice for insoles and heel inserts, as it offers maximum protection whilst providing a softer, lighter ride. Optimised for moderate to high impact energies, it is designed for markets where high durability is key.



D30® Decell, Comparative Impact Test (10 J)



Material	D30® Decell	
Product Name	Decell Solid 4mm Sheet	Decell Solid 6mm Sheet
Product Code	11350	11217
Colour	Orange	Orange
Dimensions (mm)	369 x 255	369 x 255
Thickness (mm)	4	6
Weight (g)	147	209
Material Code	SF007	SF007
Material Type	Set Foam	Set Foam

D3O® AERO

A lightweight, versatile material optimised for low to moderate impact energies, Aero is frequently used for helmet liners, palm padding, back-of-hand protection and back protectors.

TRIVENT SHEET

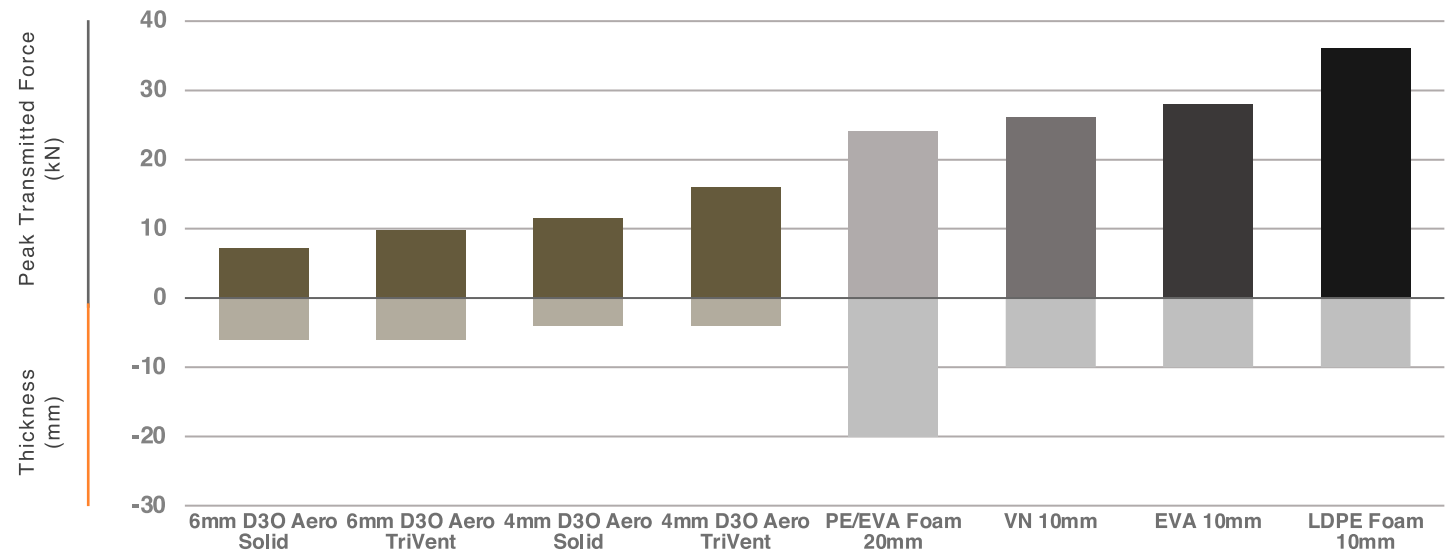


SOLID SHEET
(SKINNED)



SF

D3O® Aero, Comparative Impact Test (10 J)



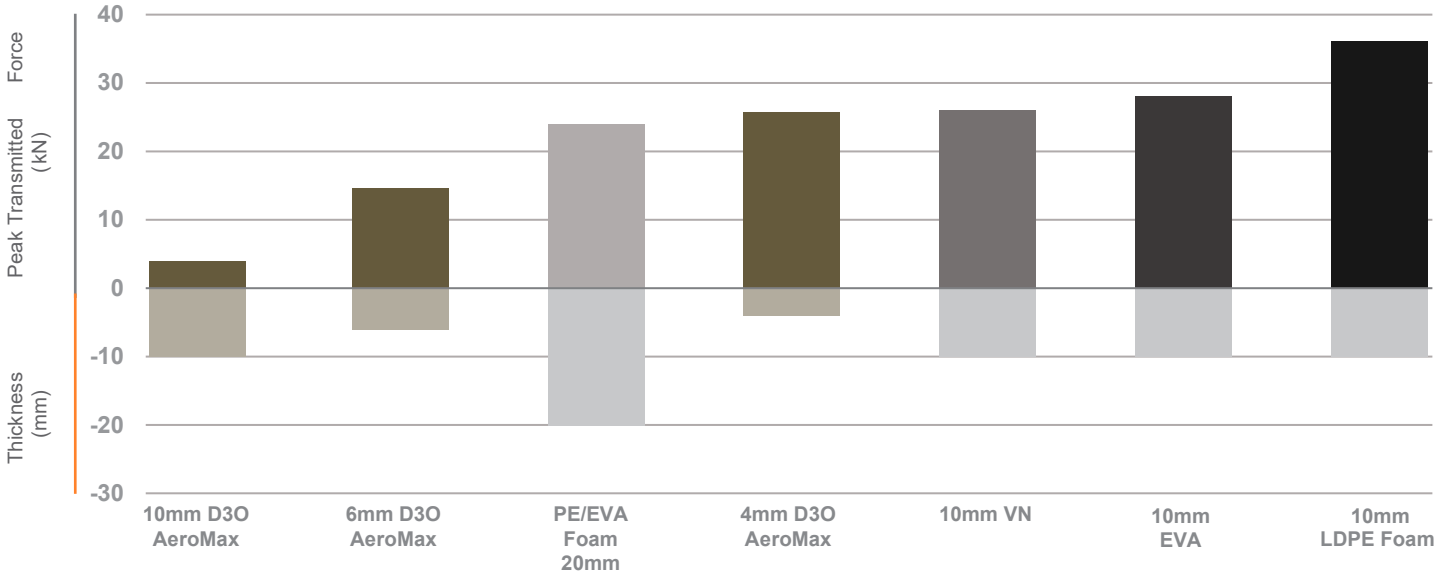
Material	D3O® Aero			
Product Name	Aero Solid 4mm Sheet	Aero Solid 6mm Sheet	Aero TriVent 4mm Sheet	Aero TriVent 6mm Sheet
Product Code	11191	11192	14206	14207
Colour	Orange	Orange	Orange	Orange
Dimensions (mm)	369 x 255	369 x 255	490 x 290	490 x 290
Thickness (mm)	4	6	4	6
Weight (g)	139	186	157	199
Material Code	SF010	SF010	SF010	SF010
Material Type	Set Foam	Set Foam	Set Foam	Set Foam

D3O® AEROMAX

AeroMax takes similar performance properties of Aero and makes it available in larger sheets.



D3O® AeroMax, Comparative Impact Test (10 J)

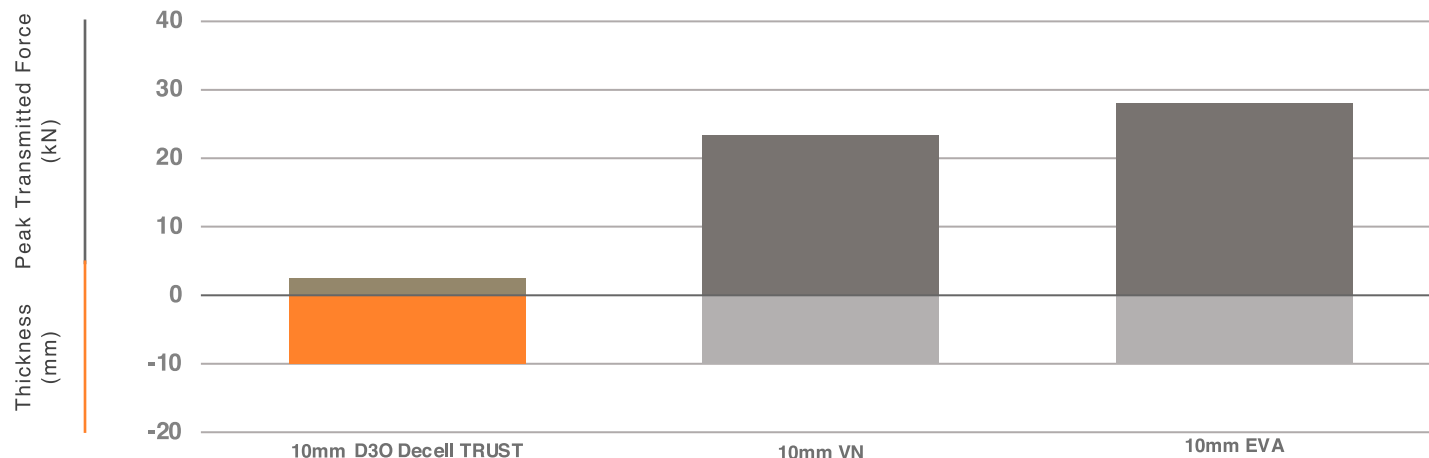


Material	D3O® AeroMax				
Product Name	AeroMax Skived Sheet 2mm	AeroMax Skived Sheet 4mm	AeroMax Skived Sheet 6mm	AeroMax Skived Sheet 8mm	AeroMax Skived Sheet 10mm
Product Code	13440	13441	13657	14195	13591
Colour	Orange	Orange	Orange	Orange	Orange
Dimensions (mm)	1000 x 1000	1000 x 1000	1000 x 1000	1000 x 1000	1000 x 1000
Thickness (mm)	2	4	6	8	10
Weight (g)	442	884	1326	1808	2210
Material Code	SF028	SF028	SF028	SF028	SF028
Material Type	Set Foam	Set Foam	Set Foam	Set Foam	Set Foam

D30® US DECELL TRUST

Highly suitable for padding and cushioning, Berry Compliant US Decell TRUST was designed to be die cut to service multiple end uses including limb protection applications, helmets, and others.

D30® US DECELL TRUST SHEET



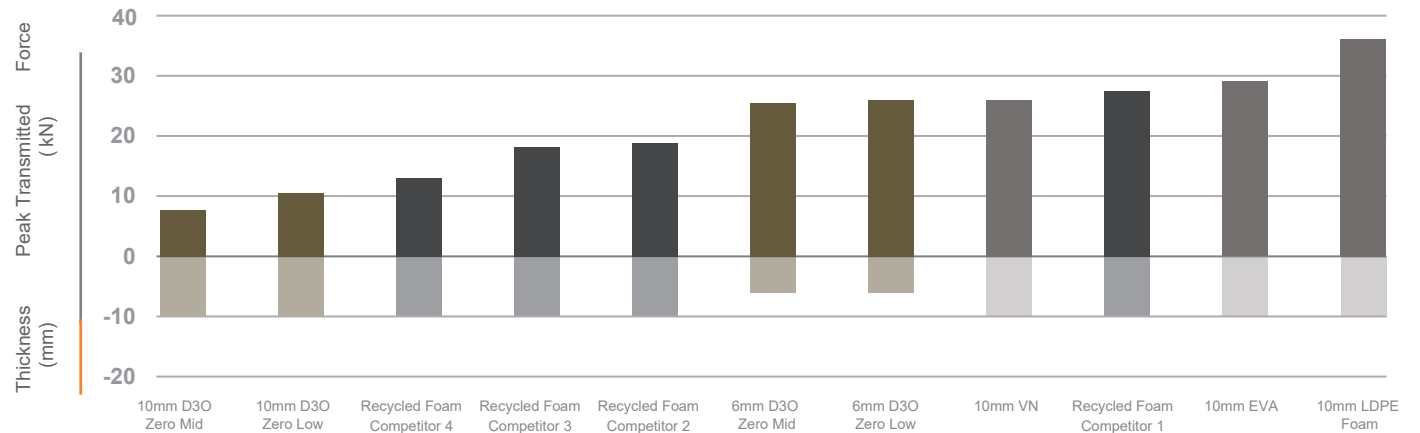
Material	D30® US Decell TRUST			
Product Name	US Decell TRUST Skived 2mm Sheet - 305x337mm	US Decell TRUST Skived 4mm Sheet - 305x337mm	US Decell TRUST Skived 6mm Sheet - 305x337mm	US Decell TRUST Skived 10mm Sheet - 305x337mm
Product Code	13251	14261	14608	13252
Dimensions (mm)	305 x 337	305 x 337	305 x 337	305 x 337
Thickness (mm)	2	4	6	10
Weight (g)	45	90	135	225
Material Code	SF019	SF019	SF019	SF019
Material Type	Set Foam	Set Foam	Set Foam	Set Foam

D3O® ZERO™

Created by recycling surplus material from D3O factories, D3O® Zero™ is the first recycled grade D3O® impact protective material, offering maximum impact protection, while working towards zero waste.



D3O® Zero™, Comparative Impact Test (10 J)



Material	D3O® Zero™									
Product Name	Zero Low Skived 2mm Sheet	Zero Low Skived 4mm Sheet	Zero Low Skived 6mm Sheet	Zero Low Skived 8mm Sheet	Zero Low Skived 10mm Sheet	Zero Mid Skived 2mm Sheet	Zero Mid Skived 4mm Sheet	Zero Mid Skived 6mm Sheet	Zero Mid Skived 8mm Sheet	Zero Mid Skived 10mm Sheet
Product Code	13486	13488	13619	14200	13490	13487	13489	13618	14199	13491
Material Code	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange
Dimensions (mm)	1000 x 1000	1000 x 1000	1000 x 1000	1000 x 1000	1000 x 1000	1000 x 1000	1000 x 1000	1000 x 1000	1000 x 1000	1000 x 1000
Thickness (mm)	2	4	6	8	10	2	4	6	8	10
Weight (g)	460	920	1380	1840	2300	540	1080	1620	2160	2700
Hardness (Shore 00)	Low	Low	Low	Low	Low	Mid	Mid	Mid	Mid	Mid
Density (g/cm3)	RF001	RF001	RF001	RF001	RF001	RF001	RF001	RF001	RF001	RF001