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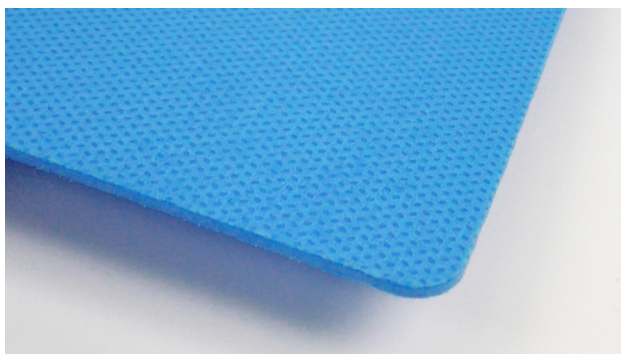
Corporate Headquarters:  
 1741 Conant Street  
 Elkhart, IN 46516

## Worldshield™ Non-woven Sheets

**Worldshield™** non-woven products are manufactured in two different versions heat laminated in-line to non-woven (spun-bond).

- 1) 25lb, 2mm Worldcell® blend with 75gsm (2.2oz) non-woven laminated to 1 or 2 sides.
- 2) 30lb, 3.2mm recycled Worldcell® blend with 75gsm (2.2oz) non-woven laminated to 1 or 2 sides.

When the two materials are laminated together, they become a durable and economic option that can be used in many reusable packaging applications. Because no adhesive glue is used, the bond is remarkably strong and heat resistance. Along with being 100% recyclable.



**100 % Recyclable  
 Material**

### Performance characteristic:

- Good strength consistency
- Easier for fabrication; no glue residue when using methods such as die cutting & sonic welding.
- No open flutes to trap dirt or moisture which can cause contamination
- Similar strength in both machine and transverse direction.

### Worldshield™ is widely used for:

- Automotive returnable packaging
- Custom Containers
- Divider sets

### Available size and color:

**Stock size:** 48'' x 96'' **Color:** Blue

### Custom sizes or colors please contact:

[info@worldcellextrusions.com](mailto:info@worldcellextrusions.com) or  
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## Worldshield™ Typical Properties

Test		Test Method	Unit of Measure	Worldshield 25lb 2mm			Worldshield 30lb 3.2mm		
				Plain	2mm 1-side	2mm 2-side	Plain	3.2mm 1-side	3.2mm 2-side
Density				400kg/m3 (25lb/ft3)			480kg/m3 (29lb/ft3)		
Thickness			mm	Plain	2mm 1-side	2mm 2-side	Plain	3.2mm 1-side	3.2mm 2-side
Mean Failure Energy		ASTMD5628-10	Joule(s)	0.7	2.2	6.5	0.5	1.4	2
Flexural Strength	MD	ASTM D790-10	Mpa	20	19	15	19	17	16
	TD	ASTM D790-10	Mpa	16	16	11	16	12	14
Flexural Modulus	MD	ASTM D790-10	Mpa	830	610	530	790	780	680
	TD	ASTM D790-10	Mpa	640	490	390	610	490	530
Flammability		FMVSS302/ CMVSS302	Pass/Fail	Pass	Pass	Pass	Pass	Pass	Pass

MD = Machine Direction

TD = Transverse Direction