



Why IMPAXX™:

Providing higher efficiency and improved safety performance compared to other EA countermeasures, IMPAXX™ foam minimizes weight and use of packaging space. In addition, it achieves better safety ratings, requirement compliance, design flexibility and passenger comfort at cost-competitive prices.

Manufacturing Process

CNC wire cut, 3-Dimensional components. No tooling.

Markets:

OEM & Tier 1 Manufacturers

Areas of Application:

- Headliner and pillar trims
- Lower interior front and rear doors
- Steering column and lower instrument panel
- Under carpet
- Bumper systems
- Seating systems

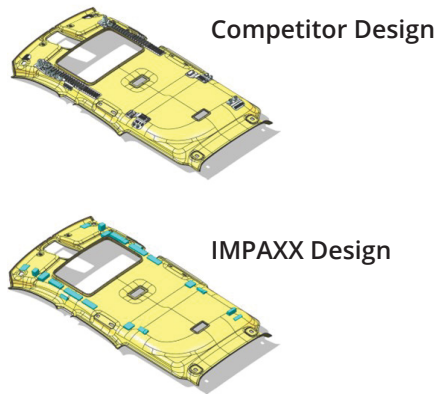
Industry Applications:

- Interior Occupant Safety - Automotive, Military, Aerospace
- Exterior Vehicle Safety - Pedestrian Protection

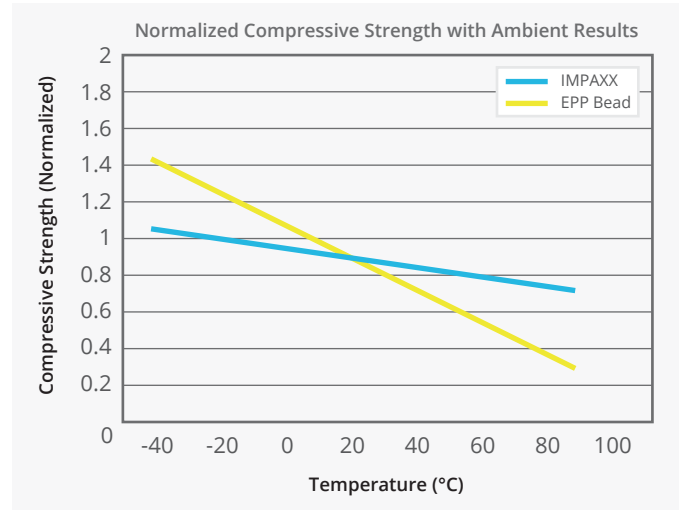
IMPAXX™ Specifications	Physical Properties	Test Methods	Direction	IMPAXX 300 Value (U.S./Metric)	IMPAXX 500 Value (U.S./Metric)	IMPAXX 700 Value (U.S./Metric)
	Density	ASTM D3575 Suffix-W Method B, DIN 53420	N/A	2.3 pcf 37 Kg/m ³	2.7 pcf 43 Kg/m ³	2.8 pcf 45 Kg/m ³
	Compressive Strength @ 10% @ 25% @ 50%	ASTM D1621, 23°C	Vertical	Psi / kPa 50.1 / 345	Psi / kPa 74.3 / 512	Psi / kPa 101 / 700
			Vertical	54.4 / 375	78.9 / 544	104 / 718
			Vertical	63.0 / 434	88.7 / 612	121 / 835
Compressive Strength @ 25% @ 50%	ASTM D1621, -15°C	Vertical	Psi / kPa 56.8 / 392	Psi / kPa 82.3 / 567	Psi / kPa 114 / 788	
		Vertical	68.4 / 471	95.7 / 660	138 / 954	
Compressive Strength @ 25% @ 50%	ASTM D1621, 60°C	Vertical	Psi / kPa 48.7 / 335	Psi / kPa 71.4 / 492	Psi / kPa 73 / 504	
		Vertical	52.0 / 359	72.3 / 498	85 / 586	

Significant Weight Reduction

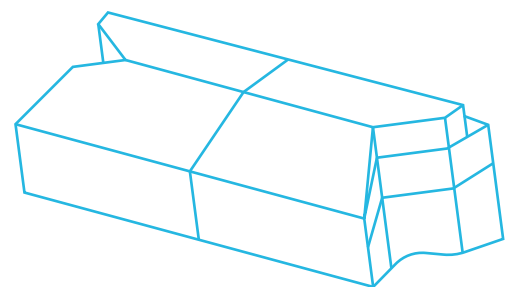
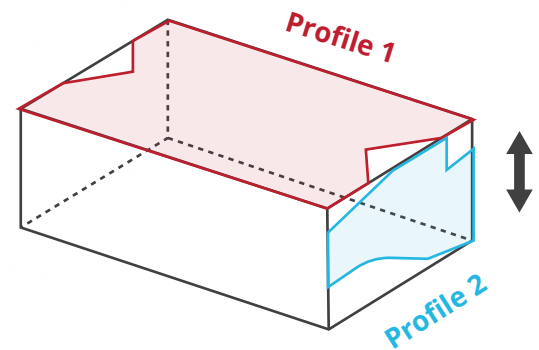
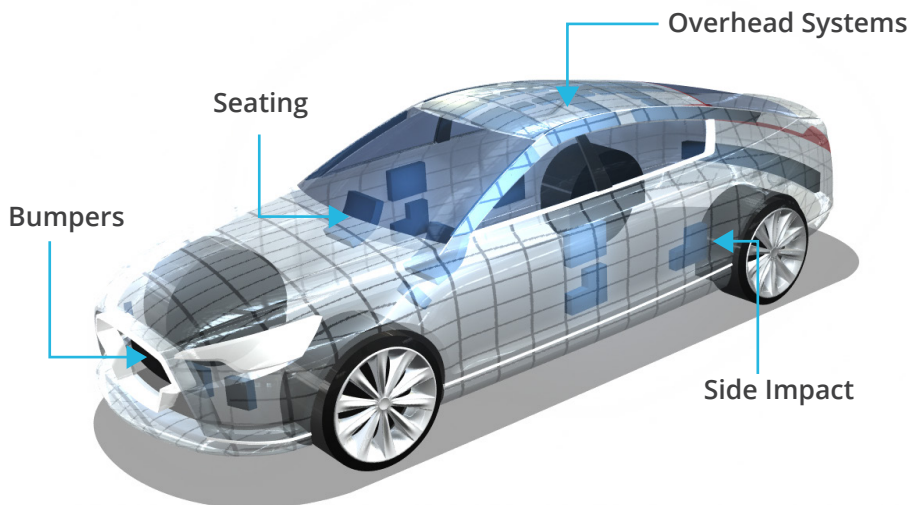
Item	Total Mass (g)
Competitor Design	657.0
IMPAXX™ Design	56.9
91% LIGHTER	



Effect of Temperature on Compression at 25% Strain



CNC Wire Cutting - 3D shapes from 2D Profiles



3D Shapes from 2D Profiles

Our computer program interprets 2D top and side profiles creating tool paths.

Precision Parts

The machine cuts around the tool paths, efficiently creating precision parts.