

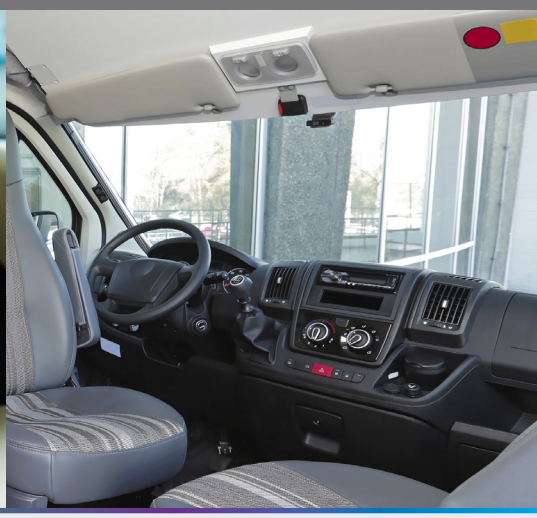

Royalite™ R104

Foam Laminated Sheet

PRODUCT DESCRIPTION

Royalite™ R104 laminate sheet consists of a soft-to-touch layer supported by a rigid ABS backing. This results in a 'soft feel' substrate with excellent physical characteristics such as high impact strength and ductility.

VALUE SOLUTION

Add appeal with softness and strength

Royalite R104 laminate adds a distinctive soft look and feel to rigid surfaces, particularly in many vehicle applications. It meets key automotive specifications for rigid thermoplastic sheet and provides visual appeal to dash panels, consoles and other surface areas. Pleasing colors and textures combine with this high performing material to set vehicles apart and enhance overall value. Royalite R104 laminate is also easy to process, using one-step thermoforming techniques that result in cost-effective manufacturing.

KEY CHARACTERISTICS

- Soft feel with high rigidity
- Very high impact strength
- Excellent ductility
- Good tensile strength
- Good formability
- Aesthetically appealing
- Wide range of colors and textures

TARGET MARKET AND APPLICATIONS

A soft outer layer and excellent physical characteristics make Royalite R104 laminate a popular choice for:

- Automotive consoles
- Recreational vehicle dash panels
- Truck and RV headliners
- Heavy duty truck door panels
- Boating applications

PolyOne™

TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	UNITS	DATA
Specific Gravity	ASTM D-792		1.03–1.08†
Tensile strength, machine direction	ASTM D-638	(psi)	5,000
Impact Strength @ 72˚F Notched Izod	ASTM D-256	(ft-lbs/in touch)	7.0
Flexural Strength	ASTM D-790	(psi)	8,300
Flexural Modulus @ 1% secant	ASTM D-790	(10^5 psi)	2.7
Hardness	ASTM D-785	Rockwell Scale R	96
Heat deflection temperature (annealed) @ 264 psi	ASTM D-648	264 psi fiber stress (˚F)	200

LAMINATE

Material	PVC Skin/PVC Foam

TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	UNITS	DATA
Weight		(oz/yd^2)	41–46
Thickness		(inches)	0.077–0.093
Elongation	ASTM D-638	(%)	190
Maximum Stretch Ratio			2.5:1.0

† Color dependent

* This term and any corresponding data refer to typical performance in the specific tests indicated and should not be construed to imply this material's behavior under actual fire conditions.