

Royalite R104

Acrylonitrile Butadiene Styrene

Spartech Plastics

Message:

ROYALITE® R104 laminate provides a soft feel aesthetically appealing material that meets most of the current automotive specifications for rigid thermoplastic sheet. R104 consists of a soft-to-the-touch layer supported by a rigid ABS backing, giving excellent physical characteristics such as impact strength and ductility. It is very easy to process using one-step thermoforming techniques that result in cost-effective manufacturing. ROYALITE®R104 is available in a number of standard colors, and custom colors can be matched subject to minimum order quantities.

APPLICATIONS:

ROYALITE® R104 laminate is suited for automotive consoles, recreational vehicle dash panels, truck and RV headliners, boating applications and door panels on heavy-duty vehicles such as fire-trucks.

| General Information | | | |
|---|---------------------------------|-------------------|-----------------------|
| Features | Rigidity, high | | |
| | Impact resistance, high | | |
| | Workability, good | | |
| | Soft | | |
| | ductility | | |
| | Medium strength | | |
| Uses | Laminate | | |
| | Sheet | | |
| | Application in Automobile Field | | |
| Forms | Particle | | |
| Processing Method | Thermoforming | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.04 | g/cm ³ | ASTM D792, ISO 1183 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 96 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | | | |
| Yield | 34.5 | MPa | ISO 527-2 |
| -- | 34.5 | MPa | ASTM D638 |
| Flexural Modulus | 1860 | MPa | ASTM D790, ISO 178 |
| Flexural Strength | 57.2 | MPa | ASTM D790, ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (22°C) | 370 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Annealed) | 93.3 | °C | ASTM D648, ISO 75-2/A |
| Additional Information | | | |

Specific Gravity, ASTM D792: 1.03 to 1.05 g/cm³Melt Temperature, Foam Side: 280 to 340 °FMelt Temperature, Back Side: 340 to 380 °F

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

