



Royalite™ R926 Fire-Rated Sheet

PRODUCT DESCRIPTION

Royalite™ R926 sheet is a flame-rated, non-PVC solution for use in the electronics and healthcare industries.

VALUE SOLUTION

Reliability in high operating temperatures and product applications

The high deflection temperature and stiffness of Royalite R926 sheet means reliable performance during thermoforming and in final product use. It stands up to the high operating temperatures of compact thermoforming equipment, while the flexural modulus of R926 provides protection from incidental impact and cracking during use.

Royalite R926 sheet is made without PVC, for those hospitals and healthcare facilities that are choosing non-PVC materials. It also meets strict UL requirements for fire-rated sheet with UL Certifications:

- 94 V-0 at 0.059"
- 94 V-2 at 0.0295"
- 94 5VA at 0.118"
- 94 5VB at 0.078"

KEY CHARACTERISTICS

- Suitable for hospitals where materials with no PVC are preferred
- High deflection temperature, impact strength and flexural modulus
- Allows manufacture of highly detailed thermoformed deep draw parts
- High deflection temperature, impact strength and stiffness
- Available in wide range of colors and textures and in gauges from 0.050" to 0.250"
- Meets UL requirements for fire-rated sheet
- UL listed passing the Ball Pressure Test

TARGET MARKET AND APPLICATIONS

Electronics

- Processing terminals
- Hand-held monitors
- GPS housings

Healthcare

- Diagnostic imaging equipment
- Medical device housings



TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	UNITS	DATA
Specific Gravity	D-792		1.19
Tensile Modulus	D-638	(psi)	395,000
Tensile Strength @ Yield	D-638	(psi)	9,900
Flexural Modulus	D-790	(psi)	400,000
Notched izod impact	D-256 (73°)	(ft-lbs/in)	14
Coefficient of Thermal Expansion	D-696	(in/in °F x 10 ⁻⁵)	4.6-5.5
Instrumental Impact	D-3763	(ft-lbs)	45
DTUL @ 264 psi	D-648	°F	210

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