

# Royalite® R927

## Fire-rated sheet

### Product Description

Royalite® R927 is a PC/ABS fire rated extruded sheet that allows you to manufacture highly detailed thermoformed deep draw parts. Custom manufactured in a wide variety of colors and textures in gauges from 0.050" to 0.325", Royalite® R927 can be used in a variety of market applications including medical device housing and electrical appliances. Royalite® R927 is RoHS Compliant and ignition resistant.

### Technical Properties

Property	Test Method	Value*
Specific Gravity (color dependent)	ASTM D-792	1.19
Melt Flow Rate 260°C/5.0 kg	ASTM D-1238	14 g/10 min
Mold Shrinkage	ASTM D-955	0.004 to 0.006 in/in
Flexural Modulus	ASTM D-638	400,000 psi
Tensile Strength @ yield	ASTM D-638	9,900 psi
Tensile Elongation @ yield	ASTM D-638	5%
Tensile Elongation @ break	ASTM D-638	71%
Izod Impact (Notched) 72°F	ASTM D-256	14 ft-lbs/in*
Izod Impact (Notched) -22°F	ASTM D-256	2.4 ft-lbs/in*
Instrumented Impact (@ 0.125")	ASTM D-3763	45 ft-lbs
Coefficient of Linear Thermal Expansion	ASTM D-696	4.6 – 5.5x10 <sup>-5</sup> in/in/°F
Heat Deflection Temperature (@264 psi – annealed)	ASTM D-648	210°F
Heat Deflection Temperature (@66 psi – unannealed)	ASTM D-648	208°F
Flammability	UL 94 V-0	0.06 in (1.5 mm)
Flammability	UL 94-5VB	0.08 in (2.0 mm)
Flammability	UL 94-5VA	0.10 in (2.5 mm)

\*value from injection mold

For additional information, please contact Spartech at 800-677-4338 (800-67-SHEET), e-mail [info@spartech.com](mailto:info@spartech.com) or visit our website at [www.spartech.com](http://www.spartech.com)

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