

## Royalite™ R57 Fire-rated sheet

### Product Description

Royalite R57 thermoplastic sheet is a fire-rated, rigid ABS/PVC product specifically developed to meet Federal Aviation Administration requirements. It passes FAR 25.853b at 0.047" and above. It combines its lightweight with very high impact strength, high tensile strength and stiffness, and excellent formability and ductility.

### Value Solution

Royalite R57 sheet is 10% lighter than competitive materials. This reduction in weight allows for reduced overall production costs for aircraft manufacturers and reduced operating costs and fuel consumption for aircraft operators.

In addition to its lightweight capabilities, R57 offers excellent thermoformability. This results in attractive thermoformed parts that exhibit sharp, crisp detail and outstanding grain retention.

### Key Characteristics

The primary features and benefits of Royalite R57 fire-rated sheet are:

- Lightweight - Results in reduced production and operation costs, lesser fuel consumption
- High tensile strength
- Fire-rated - Passes FAR 25.853b at 0.047" and above
- Excellent formability - Can be used for a variety of aircraft interior products of varied size and function
- Very high impact strength - Durable, long-lasting parts
- Available in a wide range of colors and textures ranging from smooth to deep-textured



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## Markets and End-Use Applications

### Aircraft

Lightweight, toughness and beauty, plus the ability to achieve almost any shape in a wide range of thicknesses are some of the reasons why fire-rated Royalite R57 sheet is found in many small aircraft applications. It is used for tray tables and armrests in smaller commuter and private airplanes; additionally, it is used for interior ceiling and side panels in many helicopters.

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#### PolyOne Americas

33587 Walker Road  
Avon Lake, Ohio 44012  
United States  
+1 440 930 1000

#### PolyOne Asia

Guoshoujing Road No. 88  
ZJ Hi-Tech Park, Pudong  
Shanghai, 201203, China  
+86 (0) 21 5080 1188

#### PolyOne Europe

6 Giällewee  
Fischbach, Luxembourg L-9749  
+32 (0) 83 660 211

[www.polyone.com](http://www.polyone.com)

#### MEDIA CONTACT INFORMATION

Kyle Rose  
Director, Corporate Communications  
PolyOne Corporation  
+1 440 930 3162  
[Kyle.Rose@polyone.com](mailto:Kyle.Rose@polyone.com)

Christi Emmenegger  
Marketing Communications Manager  
PolyOne Designed Structures and Solutions, LLC.  
+1 314 721 4242  
[Christi.Emmenegger@polyone.com](mailto:Christi.Emmenegger@polyone.com)

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