

Royalite R57

Acrylonitrile Butadiene Styrene + PVC

Spartech Plastics

Описание материалов:

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 lightweight with very high impact strength, high tensile strength and stiffness, and excellent formability and ductility.

APPLICATIONS:

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.

PROCESSING:

ROYALITE® R57 rigid, fire-rated* thermoplastic sheet can be processed on virtually all thermoforming equipment from high-volume, multi-station rotary machines to hand-operated presses. It is readily hand-formed for prototyping and is suitable for use with aluminum and epoxy molds and fine-grain wood molds such as mahogany. Care must be taken in forming so as not to overheat the sheet since ROYALITE® R57 is an ABS/PVC alloy. Stock temperatures of approximately 325°F-400°F are recommended for proper forming. As with any thermoplastic material, care should be taken to account for the coefficient of thermal expansion when considering design parameters. Please contact Royalite for data relating to a specific application or equipment.

COLORS & TEXTURES:

ROYALITE® R57 is offered in a tremendous range of colors with a multitude of textures ranging from smooth to deep-textured. This Royalite product is normally capped with calendered film, which provides exceptional color and gloss control, plus outstanding grain retention after forming.

FINISHING:

With conventional plastic fabricating tools, it is possible to machine, saw, drill, rout and grind this rigid Royalite sheet. It can be punched and die-cut, and paints can be applied by spray, silk screen or roller coating. For optimum performance, paints formulated for plastics must be used. As long as proper procedures are followed, this material can be joined to other materials, or itself, by adhesive bonding, ultrasonic welding and by mechanical fasteners such as screws and rivets. Please contact Royalite for specific recommendations.

AVAILABILITY:

ROYALITE® R57 is available from our warehouse with standard dimensions of 54" x 94" in a variety of colors in a haircell or level haircell finish in gauges ranging from 0.047" to 0.187". Specific blank sizes can be cut to order for an extra charge. For a specific listing of our warehouse offerings, please contact us or our nearest distributor. Warehouse material can normally ship within 72 hours of receipt of the order.

Other standard and custom colors, grain textures, gauges and blank sizes are available subject to normal production scheduling. Maximum width available is 54". Gauges range from 0.047" to 0.312". Widths and gauges outside the standard are available with some restrictions.

Главная Информация

Характеристики	Ультразвуковой сварочный
	Жесткий, хороший
	Высокая прочность на растяжение
	Высокая ударопрочность
	Распылитель
	Обработываемый
	Сплоченность
	Хорошая адгезия
	Низкая термостойкость
	Теплостойкость, средняя
	Хорошая прочность
	Пластичность
	Отличный внешний вид

Огнестойкий

Используется	Интерьер самолета Применение самолетов		
Рейтинг агентства	FAA FAR 25,853 B 2		
Внешний вид	Доступные цвета		
Формы	Лист		
Метод обработки	Вакуумная формовка		
Физический	Номинальное значение	Единица измерения	Метод испытания
Удельный вес ¹	1.18 - 1.26	g/cm ³	ASTM D792
Твердость	Номинальное значение	Единица измерения	Метод испытания
Твердость Роквелла (R-Scale)	93		ASTM D785
Механические	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение-Поток (Yield)	33.1	MPa	ASTM D638
Флекторный модуль	1930	MPa	ASTM D790
Flexural Strength	53.1	MPa	ASTM D790
Воздействие	Номинальное значение	Единица измерения	Метод испытания
Зубчатый изод Impact			ASTM D256
-29°C	85	J/m	ASTM D256
22°C	430	J/m	ASTM D256
Тепловой	Номинальное значение	Единица измерения	Метод испытания
Температура отклонения при нагрузке (1.8 MPa, Unannealed)	79.4	°C	ASTM D648
Воспламеняемость	Номинальное значение		Метод испытания
Огнестойкость (2.16 mm)	V-0		UL 94
FAA Flammability ²	Passes		FAR 28.853(b)
Воспламеняемость	Passes		FMVSS 302
Температура термоформования-Машина	163 - 204	°C	

NOTE

1. Color dependent
2. 12 sec vertical burn, FAR Part 25, Appendix F, Part I, Section (a)(1)(ii)

* Отказ от ответственности: Информация на этой странице предоставлена производителем, и поставщик документа не несет никакой юридической ответственности. Все права защищены. Пожалуйста, немедленно свяжитесь с нами в случае каких-либо нарушений.

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