

## Royalite R60

Acrylic (PMMA) + PVC

Spartech Plastics

### Описание материалов:

ROYALITE® R60 is a rigid, fire-rated, proprietary thermoplastic sheet specifically formulated to meet the requirements of the FAR 25.853a flammability\* test. It provides outstanding color, gloss and grain control while virtually eliminating grain and gloss retention problems after forming that are often found in other fire-rated materials. ROYALITE® R60 combines very high impact strength and stiffness with excellent formability in deep draws. It has high resistance to normal food and environmental stains, and its cleanability with common cleaners is simply outstanding.

### APPLICATIONS:

Currently, ROYALITE® R60 is being used in aircraft interiors that must meet FAR 25.853a. However, it is also ideal for a wide range of applications, such as computers, electronic instrumentation and business machine housings where rigidity in thin gauges, good flammability rating, high impact strength and excellent color, gloss and grain control are required.

### PROCESSING:

ROYALITE® R60 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® R60 is a PVC/acrylic alloy. Stock temperatures of approximately 330°F-380°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® R60 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® R60 rigid PVC/acrylic sheet is available in a wide variety of economy, standard and custom colors, grain textures, gauges and blank sizes subject to normal production scheduling. Maximum width available is 54". Gauges range from 0.028" to 0.312". Widths and gauges outside the standard are available with some restrictions.

### Главная Информация

UL YellowCard	E52355-242606	E52355-242627
Характеристики	Ультра высокая ударпрочность	
	Ультразвуковой сварочный	
	Жесткий, высокий	
	Жесткий, высокий	
	Высокая прочность на растяжение	
	Сопrotивление пятнам	
	Распылитель	
	Обрабатываемый	
	Очищаемый	
	Сплоченность	
	Хорошая адгезия	
	Огнестойкий	

Используется	Компьютерные компоненты Электрическое/электронное применение Применение самолетов Бизнес-оборудование
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Рейтинг агентства	Дальний 25,853 а
Внешний вид	Доступные цвета
Формы	Лист
Метод обработки	Термоформовка

Физический	Номинальное значение	Единица измерения	Метод испытания
Удельный вес <sup>1</sup>	1.30 - 1.38	g/cm <sup>3</sup>	ASTM D792
Формовочная усадка-Поток	0.50 - 0.70	%	

Твердость	Номинальное значение	Единица измерения	Метод испытания
Твердость Роквелла (R-Scale)	100		ASTM D785

Механические	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение-Поток (Yield)	40.7	MPa	ASTM D638
Флекторный модуль	2280	MPa	ASTM D790
Flexural Strength	66.2	MPa	ASTM D790

Воздействие	Номинальное значение	Единица измерения	Метод испытания
Зубчатый изод Impact			ASTM D256
-29°C	53	J/m	ASTM D256
23°C	750	J/m	ASTM D256

Тепловой	Номинальное значение	Единица измерения	Метод испытания
Температура отклонения при нагрузке (1.8 MPa, Unannealed)	68.3	°C	ASTM D648

Воспламеняемость	Номинальное значение	Метод испытания
FAA Flammability <sup>2</sup>	Passes	FAR 25.853
Воспламеняемость	Passes	FMVSS 302

Температура термоформования-Машина	166 - 193	°C	
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#### NOTE

1.	Color Dependent
2.	60 sec vertical burn, FAR Part 25, Appendix F, Part I, Section (a)(1)(i)

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