

Royalite R47

Acrylic (PMMA) + PVC

Spartech Plastics

Описание материалов:

ROYALITE® R47 thermoplastic sheet is a proprietary PVC alloy that is cost competitive with acrylic/PVC alloys while maintaining physical performance and improving formability. It maintains the superior thermoforming characteristics of an ABS/PVC alloy, while bringing a higher degree of impact, tensile strength, and stiffness. It also has improved heat distortion characteristics over most acrylic/PVC sheets. Its high degree of rigidity, especially in thin gauges, and lower specific gravity when compared to competitive acrylic/PVC's allows for significant cost-per-part savings.

APPLICATIONS:

The combination of toughness, durability, and fire retardancy makes Royalite® R47 the perfect choice for a wide variety of applications. Its excellent abrasion and chemical resistance make it suitable for many industrial applications such as trays, tote boxes, ducts, and sinks. High rigidity and excellent fire rating at thin gauges make it ideal for electronic equipment and business machine housings, and improved high temperature performance over most acrylic/PVC materials makes it the material of choice for internal electronic components.

PROCESSING:

You can process this rigid thermoplastic sheet on virtually all thermoforming equipment from high-volume, multi-station rotary machines to hand-operated presses. It is readily handformed for prototyping, and is suitable for use with aluminum and epoxy molds and fine-grain wood molds such as mahogany. Because

Royalite® R47 is a PVC alloy, care must be taken in forming so as not to overheat the sheet. Stock temperatures of approximately 320-390°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 Spartech for data relating to your specific application and equipment.

COLORS & TEXTURES:

Royalite® R47 sheet can be supplied in a variety of colors and over 24 different grain patterns to meet specific aesthetic requirements. This Royalite product is normally capped with calendered film, which provides exceptional color and gloss control, plus outstanding grain retention after forming.

FINISHING:

You can machine, saw, drill, rout and grind this rigid sheet with conventional plastics fabricating equipment. It can be punched and die-cut, sanded and polished easily. So long as proper procedures are followed, you can join it to itself, or other materials, by adhesive bonding, ultrasonic welding, and by mechanical fasteners. Please contact Spartech for specific recommendations.

CHEMICAL & STAIN RESISTANCE, CLEANABILITY:

Royalite® R47 is resistant to a wide range of concentrated chemicals, and also exhibits very good stain resistance to common staining agents. Therefore, it is easily and safely cleaned with mild detergents or common cleansers. As with all plastics, extreme care should be taken when selecting a cleaning agent; some solutions may leave a residue or discolor the material. Mild soap and water are recommended; any other solution should be used with extreme caution as it may cause discoloration or degrade the material. Contact Spartech for suggested guidelines.

AVAILABILITY:

Royalite® R47 is available in various custom colors, grain textures, gauges, and blank sizes subject to normal product scheduling. Maximum width available is 60". The available gauge range is 0.031" - 0.375". Some restrictions apply to widths greater than 55".

Главная Информация

UL YellowCard	E52355-242606
Характеристики	Ультра высокая ударпрочность
	Хорошая стабильность размеров
	Жесткий, высокий
	Жесткий, высокий
	Высокая прочность на растяжение
	Сопrotивление пятнам
	Очищаемый
	Хорошая стойкость к истиранию
	Хорошая химическая стойкость
	Теплостойкость, высокая

Долговечность
Хорошая прочность
Огнестойкий

Используется
Электрическое/электронное применение
Инструменты/комплект запасных частей
Бизнес-оборудование
Чехол
Кронштейн Лоток

Внешний вид Доступные цвета

Формы Частицы

Метод обработки Термоформовка

Физический	Номинальное значение	Единица измерения	Метод испытания
Удельный вес ¹	1.27 - 1.30	g/cm ³	ASTM D792
Формовочная усадка-Поток (3.18 mm)	0.50 - 0.70	%	ASTM D955
Твердость	Номинальное значение	Единица измерения	Метод испытания
Твердость Роквелла (R-Scale, 3.18 mm)	100		ASTM D785
Механические	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение-Поток (Yield, 3.18 mm)	42.1	MPa	ASTM D638
Флекторный модуль (3.18 mm)	2410	MPa	ASTM D790
Flexural Strength (3.18 mm)	64.8	MPa	ASTM D790
Воздействие	Номинальное значение	Единица измерения	Метод испытания
Зубчатый изод Impact (23°C, 3.18 mm)	690	J/m	ASTM D256
Ударное падение Dart (23°C, 3.18 mm)	36.2	J	ASTM D5420
Тепловой	Номинальное значение	Единица измерения	Метод испытания
Температура отклонения при нагрузке (1.8 MPa, Annealed, 3.18 mm)	75.6	°C	ASTM D648
Воспламеняемость	Номинальное значение	Метод испытания	
Огнестойкость		UL 94	
0.737 mm, All Colors	V-0	UL 94	
2.49 mm, All Colors	5VA	UL 94	
Воспламеняемость (3.18 mm)	Passes	FMVSS 302	
NOTE			
1.	Color Dependent		

* 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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