

## Royalite R59

Acrylonitrile Butadiene Styrene + PVC

Spartech Plastics

### Описание материалов:

ROYALITE® R59 thermoplastic sheet provides a unique ABS/PVC product that meets many industry flammability standards. It is recognized under the component program of Underwriters Laboratories, Inc. with a classification of 94V-1 at 0.058", 94V-0 at 0.085" and 94- 5VA at 0.085". It combines very high impact strength with excellent ductility and formability.

#### APPLICATIONS:

Because of its fire rating\*, ROYALITE® R59 sheet has won acceptance in a variety of applications from rapid transit vehicle interiors to computer and electronic data processing terminals. High rigidity in thin gauges coupled with consistent high quality color, texture and gloss makes ROYALITE® R59 sheet ideal for such varied applications as computer side panels and airport seating.

#### PROCESSING:

ROYALITE® R59 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. This material is also excellent for pressure forming applications. Care must be taken in forming so as not to overheat the sheet since ROYALITE® R59 is an ABS/PVC alloy. Stock temperatures of approximately 325°F-400°F are recommended for proper forming. Please contact Royalite for data relating to a specific application or equipment.

#### COLORS & TEXTURES:

ROYALITE® R59 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:

A range of standard colors of ROYALITE® R59 ABS/PVC sheet, is available from our warehouse, with a Level Haircell grain in a 54" x 94" blank size in gauges ranging from 0.062" to 0.250". 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 0.031" to 0.312". Widths and gauges outside the standard are available with some restrictions.

Главная Информация			
UL YellowCard	E52355-242610	E103564-101884229	E103564-100140599
	E103564-314868	E103564-485695	E103564-485696
	E103564-485697		
Характеристики	Ультразвуковой сварочный		
	Высокая прочность на растяжение		
	Высокая ударопрочность		
	Обрабатываемость, хорошая		
	Распылитель		
	Обрабатываемый		
	Сплоченность		
	Хорошая адгезия		
	Низкая термостойкость		
	Теплостойкость, средняя		

Пластичность

Огнестойкий

Используется

Компьютерные компоненты

Применение в автомобильной области

Внешний вид

Доступные цвета

Формы

Лист

Метод обработки

Термоформовка

Физический	Номинальное значение	Единица измерения	Метод испытания
Удельный вес <sup>1</sup>	1.18 - 1.25	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)	93		ASTM D785
Механические	Номинальное значение	Единица измерения	Метод испытания
Прочность на растяжение-Поток (Yield)	34.5	MPa	ASTM D638
Флекторный модуль	1930	MPa	ASTM D790
Flexural Strength	53.8	MPa	ASTM D790
Воздействие	Номинальное значение	Единица измерения	Метод испытания
Зубчатый изод Impact			ASTM D256
-29°C	96	J/m	ASTM D256
23°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
CLTE-Поток	8.3E-5 - 9.9E-5	cm/cm/°C	ASTM D696
RTI Elec	85.0	°C	UL 746
RTI Imp	75.0	°C	UL 746
RTI Str	85.0	°C	UL 746
Воспламеняемость	Номинальное значение		Метод испытания
	V-0		
Огнестойкость (2.16 mm)	5VA		UL 94
Индекс распространения пламени	RP-50		UL 94
Воспламеняемость	Passes		FMVSS 302
Температура термоформования-Машина	163 - 204	°C	

#### 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.

Свяжитесь с нами

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