

Royalite R570

Acrylonitrile Butadiene Styrene

Spartech Plastics

Message:

ROYALITE® R570 is proprietary Brominated ABS Fire Rated thermoplastic sheet product. R-570 is UL listed V-0@ .061 and UL-5VA listed at .089 and above. R570 combines good impact strength and stiffness with excellent formability. It has a good resistance to most environmental stains and its cleanability with common cleaners is outstanding. Manufactured utilizing our proprietary cap sheet technology, R570 provides outstanding color and gloss control and superior grain retention after thermoforming.

APPLICATIONS:

The combination of toughness, durability, and fire retardancy makes Royalite® R570 the perfect choice for a wide variety of fire rated applications when faced with using a non PVC material. Its excellent balance of properties makes it suitable for wide variety of applications such as business machine housing, medical equipment, and electronics enclosures. The superior forming characteristics of R570 also make it a great material for the complex configurations.

General Information	
Features	Ultra high toughness
	Rigidity, high
	Highlight
	High strength
	stain resistance
	Impact resistance, high
	Cleanable
	Good coloring
	Durability
	Flame retardancy
Uses	Electrical/Electronic Applications
	Sheet
	Shell
	Medical/nursing supplies
Forms	Particle
Processing Method	Sheet extrusion molding
	Thermoforming

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage - Flow (3.18 mm)	0.50 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.18 mm)	98		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield, 3.18mm	39.3	MPa	ISO 527-2

3.18 mm	39.3	MPa	ASTM D638
Flexural Modulus	2140	MPa	ASTM D790, ISO 178
Flexural Strength (3.18 mm)	64.8	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	240	J/m	ASTM D256
Dart Drop Impact (23°C, 3.18 mm)	36.2	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, annealed, 3.18mm	93.3	°C	ASTM D648
1.8 MPa, annealed	93.3	°C	ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.55 mm	V-0		UL 94
2.26 mm	5VA		UL 94
Additional Information			
Specific Gravity, ASTM D792: 1.21 to 1.26 g/cm ³ Stock Temperature: 320 to 375 °F			

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