

Royalite R71/920

Polycarbonate + ABS

Spartech Plastics

Message:

ROYALITE® R71/920 thermoplastic sheet is a fire-rated, polycarbonate ABS product that combines very high impact strength, high tensile strength and stiffness with excellent formability and exceptional heat resistance. It offers an excellent combination of mechanical and thermal properties and is formulated for high dimensional stability, rigidity, easy processing and consistent color control.

APPLICATIONS:

The combination of properties provided by ROYALITE® R71/920 makes it the preferred choice for applications such as telecommunications equipment, instrument panels, general office equipment and electronics, both consumer and industrial.

General Information			
Features	Ultra-high impact resistance		
	Good dimensional stability		
	Rigidity, high		
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	High strength		
	Workability, good		
	Heat resistance, high		
Uses	Electrical/Electronic Applications		
	Industrial application		
	Sheet		
	Car dashboard		
	Communication Equipment		
	Consumer goods application field		
Forms	Particle		
Processing Method	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	0.70 - 0.90	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	55.2	MPa	ISO 527-2
--	55.2	MPa	ASTM D638
Flexural Modulus	2280	MPa	ASTM D790, ISO 178
Flexural Strength	82.7	MPa	ASTM D790, ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (22°C)	430	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Annealed)	116	°C	ASTM D648, ISO 75-2/A
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.52 mm, All Colors	V-0		UL 94
2.26 mm, All Colors	5VB		UL 94
2.59 mm, All Colors	5VA		UL 94
Additional Information			

Specific Gravity, ASTM D792: 1.19 to 1.24 g/cm³Stock Temperature: 330 to 380 °FDrying Time: 4 hrDrying Temp: 220 °F

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