

Axiall PVC SP-6655

Rigid Polyvinyl Chloride

Axiall Corporation

Message:

Georgia Gulf's SP-6655 is a high flow rigid PVC compound designed for electrical and custom molding applications. This compound features excellent physical properties, good melt flow, and exceptionally high impact strength, especially at low temperatures. SP-6655's UL Flammability rating and elevated UL Relative Thermal Index rating are provided.

General Information			
UL YellowCard	E53006-243363		
Features	High Flow		
	Low Temperature Impact Resistance		
	Ultra High Impact Resistance		
Uses	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
PVC Cell Classification	14002123		ASTM D4216
PVC Cell Classification	15233		ASTM D1784
Flow Ratio ¹	5500		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2280	MPa	ASTM D638
Tensile Strength	37.9	MPa	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	80	J/m	
-20°C, 3.18 mm	110	J/m	
0°C, 3.18 mm	530	J/m	
23°C, 3.18 mm	690	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	68.0	°C	
0.45 MPa, Annealed	75.0	°C	
1.8 MPa, Unannealed	61.0	°C	
1.8 MPa, Annealed	69.0	°C	
Vicat Softening Temperature ²	88.0	°C	ASTM D1525 ³
RTI Elec	95.0	°C	UL 746
RTI Imp	85.0	°C	UL 746
RTI Str	85.0	°C	UL 746

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
	V-0	
1.60 mm	5VA	
	V-0	
3.00 mm	5VA	

NOTE		
1.	Distance/Wall Thickness, 390 to 400°F	
2.	Annealed	
3.	Rate A (50°C/h)	

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