

Suprel® SVA 9412

Rigid Polyvinyl Chloride

Axial Corporation

Message:

Georgia Gulf Suprel® SVA 9412 injection molding alloy features excellent impact resistance, excellent processing characteristics and comprehensive UL listings. The UL listings of Suprel 9412 include elevated Relative Thermal Index ratings, weatherability listings per UL 746C and good flammability listings.

General Information			
UL YellowCard	E53006-243278	E53006-243279	E53006-243280
Features	Good Impact Resistance		
	Good Processability		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow	0.30 to 0.50	%	ASTM D955
	f2		
Outdoor Suitability	f1		UL 746C
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1930	MPa	ASTM D638
Tensile Strength	32.4	MPa	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength	50.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	160	J/m	
23°C, 3.18 mm	800	J/m	
Drop Impact Resistance (-40°C, 1.59 mm)	40.0	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	75.0	°C	
0.45 MPa, Annealed	81.0	°C	
1.8 MPa, Unannealed	66.0	°C	
1.8 MPa, Annealed	80.0	°C	
Vicat Softening Temperature	88.0	°C	ASTM D1525 ¹
RTI Elec	95.0	°C	UL 746
RTI Imp	85.0	°C	UL 746
RTI Str	95.0	°C	UL 746

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
2.54 mm	V-0	
2.00 mm	5VA	
NOTE		
1.	Rate A (50°C/h)	

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