Suprel® SVA 9812

Rigid Polyvinyl Chloride

Axiall Corporation

Message:

Georgia Gulf Suprel® SVA-9812 Alloy is an extrusion grade thermoplastic designed for sheet or profile applications requiring high impact resistance. Key features of Suprel 9812 alloy are flame retardance and excellent toughness at both room temperature and low temperatures. Suprel 9812 has good extrusion characteristics including good thermal stability and high gloss. It is particularly well suited for profile extrusion because the combination of low die swell, good melt strength and good melt stiffness allow easy sizing of extruded profiles. Suprel 9812 alloy is available in a full range of colors, or as un-pigmented "natural" for coloring on-line with color concentrates. Typical applications include extruded sheet or profiles for use in construction, automotive, recreation, telecommunications or electrical products. Suprel 9812 can be used in exterior, weatherable applications if appropriate pigmentation is included.

General Information			
UL YellowCard	E53006-243295		
Features	Flame Retardant		
	Good Melt Strength		
	Good Thermal Stability		
	Good Toughness		
	Good Weather Resistance		
	High Gloss		
	High Impact Resistance		
	Low Die Swell		
	Low Temperature Toughness		
Uses	Automotive Applications		
	Construction Applications		
	Electrical/Electronic Applications		
	Outdoor Applications		
	Profiles		
	Sheet		
	Telecommunications		
Appearance	Colors Available		
Processing Method	Extrusion		
	Profile Extrusion		
	Sheet Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm³	ASTM D792
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ASTM D2240
Shore D	79		

Shore D, 15 sec	74		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2320	MPa	ASTM D638
Tensile Strength	44.8	MPa	ASTM D638
Flexural Modulus	2250	MPa	ASTM D790
Flexural Strength	63.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C, 3.18 mm	430 to 590	J/m	
22°C, 3.18 mm	850	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Annealed	85.5	°C	
1.8 MPa, Annealed	82.5	°C	
Vicat Softening Temperature	97.8	°C	ASTM D1525 ¹
RTI Elec	50.0	°C	UL 746
RTI Imp	50.0	°C	UL 746
RTI Str	50.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Flame Spread Index	RP-35		ASTM D162
NOTE			
1.	Rate A (50°C/h)		

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