Georgia Gulf

Data Sheet

Suprel® SVA 9812

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 Properties	Test Method	Typical Value
Specific Gravity	ASTM D-792	1.25
Mechanical Properties	**Test Method**	**Typical Value**
Shore "D" Hardness, Instantaneous 15 Seconds Delay	ASTM D-2246	 79 74
Tensile Strength, psi	ASTM D-638	6,500
Tensile Modulus, psi	ASTM D-638	337,000
Flexural Strength, psi	ASTM D-790	9,200
Flexural Modulus, psi	ASTM D-790	327,000
1/8" Izod Impact at 72°F, ft-lbs/in	ASTM D-256	16
1/8" Izod Impact at 32°F, ft-lbs/in	ASTM D-256	8-11
Thermal Properties	**Test Method**	**Typical Value**
Heat Deflection Temperature at 264 psi, °C/°F (Annealed)	ASTM D-648	180/82.5
Heat Deflection Temperature at 66 psi, °C/°F (Annealed)	ASTM D-648	180/85.5
Vicat Softening Temperature, °C/°F (Annealed)	ASTM D-1525A	208/97.8
Regulatory/Code	**Test Method**	**Typical Value**
Flame Class Rating, in/mm: V-O Minimum Thickness	UL 94	0.059/1.50
RTI Rating, °C	UL 746B	50
Flame Spread Index	ASTM D-162	RP-35

1D