

## Prime ABS ST80

Our Prime ABS ST80 is an alloy of weatherable thermoplastic elastomers co-extruded over a rigid ABS substrate.

### Designed to provide a low gloss look and soft feel.

Boasts excellent durability, chemical resistance, UV stability, as well as improved sound dampening.

### Customization

Prime ABS ST80 can be thermoformed on conventional equipment employing techniques typical for thermoforming ABS. Male or Female tools may be used. Prime ABS ST80 should be heated only from the substrate side. As long as the substrate reaches a temperature suitable for thermoforming, the soft touch cap layer will also be hot enough to thermoform. The soft touch cap layer should not be heated to a temperature above 315°F. The best appearance and performance of the soft touch cap layer has been obtained when the sheet is thermoformed with the temperature of the cap layer at 280°F.

Prime ABS ST80 can be color matched to meet your specific requirements through our vertical integration with Primex Color, Compounding & Additives.

### Sustainability

Prime ABS ST80 meets industry sustainability standards and can be recycled as a post-industrial or post-consumer product in many states in the USA or any Primex Plastics facility.

**Primex Sustainability: A better tomorrow, starting today!**



# Prime ABS ST80 | Data Sheet

Prime ABS ST80 is particularly suited for use in exterior applications or those interior parts that will be exposed to direct UV light such as dashboards, panels, and trim.

## Applications

Prime ABS ST80 applications include marine, recreational, automotive, heavy truck, agricultural, and construction equipment.

## Finishing

Prime ABS can be screwed, drilled, routed, punched, and die-cut with conventional tooling. Parts made with ABS may be joined with machine screws, bolts, nuts, rivets, and spring steel fasteners. Thread-cutting or thread-forming screws are an economical means of securing separate joints. Formed parts may be joined with Methylene Chloride if maximum impact strength is not required. Press and snap techniques and sonic welding may also be used for the bonding of ABS.

## Colors, Textures, and Capabilities

Prime ABS ST80 textures include Calf Grain, HC, Seville, Levant I, and FL/HC.

Property	Method	Value	Unit
Specific Gravity	D792	1.04	
Elongation @ Break	D638	10.03	%
Tensile @ Yield	D638	3,590	psi
Flexural Modulus	D790	118,000	psi
Notched Izod @ 73°F	D256	9.3	ft-lb/in
Hardness, Initial	D2240	53	Shore D
Gloss, 60° Angle	D523	2.5	%
CLTE	D696	5.3x10 <sup>-5</sup>	psi
Melt Flow	D1238	3.03	g/10min
HDT @ 66 psi	D648	200	°F
HDT @ 264 psi	D648	178	°F
Vicat Softening Point	D1525	221	°F

UL compliant materials available upon request.

Prime ABS ST80	Very High	High	Avg.
Impact Strength	*		
Low Temperature Impact Strength			*
Tensile Strength			*
Flexural Modulus			*
Heat Deflection Temperature		*	