PRIMEX

European Division

# PRIME 6000

Our Prime 6000 is a general-purpose ABS (Acrylonitrile-Butadiene-Styrene) sheet product designed for automotive, leisure, transportation, and general thermoforming applications..

**Offers good impact strength, and good hot strength for thermoforming.**

## Customisation

All Primex grades are formulated with the user in mind, and various modifications for products are possible.

Primex has a PRIME grade suitable for your application. Please get in touch with your usual Primex contact to discuss

Prime 6000 ABS can be colour matched to meet your specific requirements.

## Sustainability

Sustainability includes considering the product's circularity or end of life during the design of the finished product. Prime 6000 ABS (recycle code 7) can be recycled as a post-industrial or post-consumer product..

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


**For more information on any of our materials,**
please contact us.

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# PRIME 6000 ABS | Data Sheet

Prime 6000 ABS is an amorphous thermoplastic material and therefore, processes easier than some other thermoplastic materials.

## Applications

Prime 6000 ABS may be used for interior applications such as appliance parts, tub/ shower surrounds, pick-up truck caps, boat accessories, and automotive trim parts. With the addition of a weatherable cap it may also be used in many outdoor application.

## Finishing

Prime 6000 ABS may be joined with machine screws, bolts, nuts, rivets, and spring steel fasteners. Thread cutting or thread-forming screws is 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 Prime 6000 ABS.

## Colours, Textures, and Capabilities

Prime 6000 ABS is available in thicknesses from1mm-6mm. Textures include; pinseal, balmoral, smooth.

| Property | Standard | Unit | Value |
|---|---|---|---|
| Melt Volume Rate 220 °C/10 kg | ISO 1133 | $cm^3$/10 min | 6 |
| Charpy Notched Impact Strength, 23° C | ISO 179/1eA | kJ/$m^2$ | 32 |
| Charpy Notched Impact Strength, -10° C | ISO 179/1eA | kJ/$m^2$ | 17 |
| Charpy Notched Impact Strength, -30° C | ISO 179/1eA | kJ/$m^2$ | 12 |
| Tensile Stress at Yield, 23 °C | ISO 527 | MPa | 40 |
| Tensile Strain at Yield, 23 °C | ISO 527 | % | 2.6 |
| Tensile Stress at Break, 23 °C | ISO 527 | MPa | 31 |
| Tensile Strain at Break, 23 °C | ISO 527 | % | 28 |
| Tensile Modulus | ISO 527 | MPa | 2000 |
| Hardness, Rockwell | ISO 2039-2 | R scale | 107 |
| Vicat Softening Temperature VST/B/50 (50N, 50 °C/h) | ISO 306 | °C | 96 |

| Prime 6000 ABS | Very High | High | Avg. |
|---|---|---|---|
| Impact Strength | | * | |
| Low Temperature Impact Strength | | | * |
| Tensile Strength | | * | |
| Flexural Modulus | | * | |
| Heat Deflection Temperature | | * | |