

# ABS - Specifications

## Description

ABS (Acrylonitrile butadiene styrene) is a low cost engineering plastic that is easy to machine and fabricate. It is best known for its impact strength, rigidity, and overall toughness. This material has good weldability and can be electroplated. It is resistant to very high impact loading and has low distortion under mechanical loads.

## Applications

- Prototypes
- Mockups
- Housings
- Short-run production parts
- Machine guards
- Industrial enclosures

# ABS

## General Material Properties\*

<b>Specific gravity</b> ASTM D-792	1.03
<b>Melt flow index</b> ASTM D-1238	3.7 g/10min
<b>Tensile strength</b> ASTM D-638	5,700 psi
<b>Elongation at break</b> ASTM D-638	50%
<b>Flexural strength</b> ASTM D-790	8,100 psi
<b>Flexural modulus</b> ASTM D-790	280,000 psi
<b>Izod impact strength</b> ASTM D-256	6.8 ft.-lb./in.
<b>Heat deflection temperature</b> ASTM D-648	190°F
<b>VICAT softening temperature</b> ISO R-306	210°F

\*The above product parameters are to be considered typical product parameters and are not intended to be considered product specifications.



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