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Technically Speaking

Acrylonitrile Butadiene Styrene (ABS)

ABS is the polymerization of Acrylonitrile, Butadiene, and Styrene monomers. Chemically, this thermoplastic family of plastics is called "terpolymers", in that they involve the combination of three different monomers to form a single material that draws from the properties of all three.

ABS possesses outstanding impact strength and high mechanical strength, which makes it so suitable for tough consumer products. Additionally, ABS has good dimensional stability and electrical insulating properties.

Don't see the answers to your ABS questions? It must be time to see what [Mr. Plastic](#) has to say. Mr. Plastic is a wealth of technical, practical and even some hysterical plastic advice. If you never thought of plastic as being a topic of fun conversation then you haven't tried creating 3D Acrylic art at home with your children yet!



Two machine shrouds manufactured of both black and white ABS sheet, heat bent and then solvent bonded together.

- Excellent resistance (no attack) to Glycerine, Inorganic Salts, Alkalies, Many Acids, Most Alcohols and Hydrocarbons.
- Limited resistance (moderate attack and suitable for short term use only) to Weak Acids.
- Poor resistance (not recommended for use) with Strong Acids and Solvents, Ketones, Aldehydes, Esters, and some Chlorinated Hydrocarbons.

- Max. temperature: 176°F 80°C
- Min. temperature: -4°F -20°C
- Autoclavable: No
- Melting Point: 221°F 105°C
- Tensile Strength: 4,300 psi
- Hardness: R110
- UV Resistance: Poor
- Translucent
- Rigid
- Specific Gravity: 1.04



Fabrication Possibilities

ABS fabrication...

- It can be thermo-formed, pressure formed, blow molded, sheared, sawed, drilled, or even "cold stamped".
- Joints can be ultrasonic welded, thermo-welded, and chemically bonded.
- Impact resistant
- Telephone bodies, Safety helmets, Piping
- Valve bodies, material handling equipment

Chemical Properties A-F	Chemical Properties G-Z
Physical Properties of Plastic	Use and Care of Plastics
The above downloads are Adobe PDF files and require Adobe Acrobat Reader	