



TECHNICAL DATA SHEET

ACRYLONITRILE BUTADIENE STYRENE (ABS)

Industrial Thermoplastic Resin for Engineering Plastic Applications

Acrylonitrile Butadiene Styrene (ABS) is an engineering thermoplastic resin valued for impact resistance, processability, surface quality, and dimensional stability in industrial manufacturing.

PRODUCT NAME & CAS NUMBER

Product Name	Acrylonitrile Butadiene Styrene (ABS)
Chemical Formula	(C ₈ H ₈ ·C ₄ H ₆ ·C ₃ H ₃ N) _n
CAS Number	9003-56-9

MAIN APPLICATIONS

- Automotive interior and exterior plastic components
- Electrical and electronic housings and enclosures
- Consumer goods, appliances, and durable molded parts
- Pipes, fittings, profiles, and extruded plastic products
- Industrial injection molding and extrusion applications

KEY PROPERTIES

Appearance	Natural, ivory, white, or colored pellets / granules
Odor	Odorless to slight characteristic polymer odor
Purity	Industrial-grade ABS resin; grade-dependent composition
Density	Approx. 1.04-1.07 g/cm ³ at 23°C
Solubility	Insoluble in water; soluble or swellable in selected organic solvents
pH	Not applicable for solid thermoplastic resin

STORAGE CONDITIONS

Store ABS resin in a cool, dry, and well-ventilated warehouse away from direct sunlight, moisture, heat sources, and open flames. Keep bags or containers tightly closed when not in use. Avoid contamination with dust, oils, and incompatible materials. Recommended storage is under standard ambient conditions in original packaging.

TECHNICAL DISCLAIMER

The information provided in this Technical Data Sheet is based on typical industrial data and is intended for general guidance only. Buyers should confirm final specifications, handling requirements, and suitability for their intended application before purchase or use.