



## ABS

### Description

Acrylonitrile butadiene styrene (ABS) is a durable, impact-resistant thermoplastic polymer known for its strength, rigidity, and ability to be molded into various shapes. It is a copolymer made from three monomers: acrylonitrile, which provides thermal and chemical stability; butadiene, which offers toughness and impact resistance; and styrene, which contributes to its stiffness, gloss, and ease of processing. These qualities make ABS a popular and versatile material used in a wide range of products, from toys and electronics to automotive parts and appliances.

### Application

- **Car Headlights:** Housings and bezels.
- **Car Parts:** Interior trim, grilles, dashboards, and other components.
- **Home Appliance Parts:** Housings for kitchen appliances, vacuum cleaners, and electronic enclosures.
- **Plastic Toys:** Building blocks, action figures, and other durable toys.

GRADE	P-A50	P-A70	P-A140	P-A150	P-A50	P-A50	P-A70	P-A140	P-A150
MFR	25	35	14	3.2	1.7	23	9	23	18
VICAT SOFTENING POINT	92	95	100	97	99	94	106	90	98
TENSILE STRENGTH AT BREAK	400	455	470	450	440	520	490	485	450
ELONGATION AT BREAK	30	20	25	23	40	30	49	32	25