



ABS

ABS is a low cost plastic material with outstanding impact resistance, machinability, and thermoforming characteristics. It is an excellent choice for machine housings, retail store fixtures, and point-of-purchase displays when impact resistance or durability is required. ABS plastic is available in general purpose, machine grade, fire-rated, UV resistant, orthotic grade, FDA compliant grade, and scratch resistant grades in a variety of textures and colors.

- Performance characteristics:
- Outstanding impact resistance
  - Easy to thermoform
  - Easy to machine
  - Easy to bond with adhesives
  - Strong and stiff
  - Low cost

TECHNICAL DATA SHEET | (EFFECTIVE 24FEB25)

ABS			
PHYSICAL PROPERTY	TEST METHOD	UNIT	VALUE
Tensile Strength	D638	psi	4,100
Flexural Modulus	D790	psi	304,000
Izod Impact (notched)	D256	ft-lbs/in	7.7
Heat Deflection Temperature @ 264 psi	D648	°F	177
Maximum Continuous Service Temperature in air	-	°F	160
Water Absorption (immersion 24 hours)	D570	%	0.30
Coefficient of Linear Thermal Expansion	D696	in/in/°Fx10 <sup>-5</sup>	5.6