



Plastics Corporation

ABS Acrylonitrile Butadiene Styrene

LEGEND

A = amorphous - Cr = crystalline - C = clear - E = excellent - G = good - P = poor -
O = opaque - T = translucent - R = Rockwell - S = Shore

STRUCTURE: A

SPECIFIC DENSITY: 1.05

WATER ABSORPTION RATE (%): 0.27

ELONGATION (%): 20

TENSILE STRENGTH (psi): 4300

COMPRESSION STRENGTH (psi): 9000

FLEXURAL STRENGTH (psi): 9200

FLEXURAL MODULUS (psi): 300000

IMPACT (IZOD ft. lbs/in): 6.6

HARDNESS: R110

FABRICATION

- BONDING: E
- ULTRASONIC WELDING: E
- MACHINING: G

DEFLECTION TEMPERATURE (deg. F)

- @ 66 psi: 206
- @ 264 psi: 193

UTILIZATION TEMPERATURE (deg. F)

- min: -40
- max: 194

MELTING POINT (deg. F): 221

COEFFICIENT OF EXPANSION: 0.000053

ARC RESISTANCE: 80

DIELECTRIC STRENGTH (kV/mm): 16

TRANSPARENCY: T

UV RESISTANCE: P

CHEMICAL RESISTANCE

- ACIDS: G
- ALKALIS: E
- SOLVENTS: P

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