

Antek

MADISON

Plastics Corporation

HDPE High Density Polyethylene

LEGEND

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

STRUCTURE: Cr

SPECIFIC DENSITY: 0.95

WATER ABSORPTION RATE (%): 0.01

ELONGATION (%): 100

TENSILE STRENGTH (psi): 4550

COMPRESSION STRENGTH (psi): 2900

FLEXURAL STRENGTH (psi): 5800

FLEXURAL MODULUS (psi): 120000

IMPACT (IZOD ft. lbs/in): NB

HARDNESS: SD65

FABRICATION

- BONDING: P
- ULTRASONIC WELDING: P
- MACHINING: G

DEFLECTION TEMPERATURE (deg. F)

- @ 66 psi: 176
- @ 264 psi: 131

UTILIZATION TEMPERATURE (deg. F)

- min: -180
- max: 248

MELTING POINT (deg. F): 266

COEFFICIENT OF EXPANSION: 0.00007

ARC RESISTANCE: 180

DIELECTRIC STRENGTH (kV/mm): 22

TRANSPARENCY: T

UV RESISTANCE: P

CHEMICAL RESISTANCE

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

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