



## Plastics Corporation

### HIPS High Impact Polystyrene

#### 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:** 1.04

**WATER ABSORPTION RATE (%):** 0.1

**ELONGATION (%):** 55

**TENSILE STRENGTH (psi):** 4000

**COMPRESSION STRENGTH (psi):** 7500

**FLEXURAL STRENGTH (psi):** 8700

**FLEXURAL MODULUS (psi):** 280000

**IMPACT (IZOD ft. lbs/in):** 2

**HARDNESS:** R65

**FABRICATION**

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

**DEFLECTION TEMPERATURE (deg. F)**

- @ 66 psi: 195
- @ 264 psi: 180

**UTILIZATION TEMPERATURE (deg. F)**

- min: -22
- max: 140

**MELTING POINT (deg. F):** 185

**COEFFICIENT OF EXPANSION:** 0.000042

**ARC RESISTANCE:** 100

**DIELECTRIC STRENGTH (kV/mm):** 18

**TRANSPARENCY:** T

**UV RESISTANCE:** P

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