

STYRENE Product Data



| Melt Flow | ASTM Test | Typical Value |
|---------------------------------|-----------|---------------|
| Flow, gm/10 min., 200/5.0 | D- 1238 | 3.0 |
| Impact Properties | ASTM Test | Typical Value |
| Falling Dart, in-lbs | D-3029 | 110 |
| Izod, ft-lbs/in notch | D-256 | 2.2 |
| Tensile Properties | ASTM Test | Typical Value |
| Yield Strength, psi | D-638 | 3,200 |
| Modulus, psi (10 ⁵) | D-638 | 2.8 |
| Elongation, % | D-638 | 55 |
| Flexural Properties | ASTM Test | Typical Value |
| Strength, psi | D-790 | 6,200 |
| Modulus, psi (10 ⁵) | D-790 | 2.8 |
| Thermal Properties | ASTM Test | Typical Value |
| Heat Distortion, °F | | |
| Annealed | D-648 | 197 |
| Vicat Softening, °F | D-1525 | 210 |
| Other Properties | ASTM Test | Typical Value |
| Gloss, 60 ° | D-523 | 63 |

845E is a high impact polystyrene specially designed for the custom sheet market. The polymer produces tough, ductile sheet with a rich matte finish. This material is especially suitable for printing and thermoforming applications.

Approvals

- (1) 845E complies with FDA requirements as amended in regulation 21 CFR §177.1640.
- (2) 845E has passed Underwriters Laboratory 94HB with yellow card approvals available upon request.
- (3) Material Safety Data Sheets are available to help customers satisfy their safety needs.