

## STYRON™ 660

### General Purpose Polystyrene Resin

#### Overview

STYRON™ 660 is a general-purpose polystyrene designed for both molding and extrusion applications. The balance between heat resistance, toughness and flow is exceptional.

Applications:

- Foam extrusion

| Physical                                 | Nominal Value (English) | Nominal Value (SI)     | Test Method  |
|------------------------------------------|-------------------------|------------------------|--------------|
| Density                                  | 1.05 g/cm <sup>3</sup>  | 1.05 g/cm <sup>3</sup> | ISO 1183     |
| Apparent (Bulk) Density                  | 0.60 g/cm <sup>3</sup>  | 0.60 g/cm <sup>3</sup> | ISO 60       |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg) | 7.0 g/10 min            | 7.0 g/10 min           | ISO 1133     |
| Mechanical                               | Nominal Value (English) | Nominal Value (SI)     | Test Method  |
| Tensile Stress (Yield)                   | 5800 psi                | 40.0 MPa               | ISO 527-2/5  |
| Tensile Strain (Break)                   | 2.0 %                   | 2.0 %                  | ISO 527-2/5  |
| Flexural Modulus                         | 478000 psi              | 3300 MPa               | ISO 178      |
| Flexural Stress                          | 11600 psi               | 80.0 MPa               | ISO 178      |
| Hardness                                 | Nominal Value (English) | Nominal Value (SI)     | Test Method  |
| Rockwell Hardness (R-Scale)              | 105                     | 105                    | ISO 2039-2   |
| Ball Indentation Hardness                | 21800 psi               | 150 MPa                | ISO 2039-1   |
| Thermal                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method  |
| Heat Deflection Temperature              |                         |                        |              |
| 66 psi (0.45 MPa), Annealed              | 212 °F                  | 100 °C                 | ISO 75-2/B   |
| 264 psi (1.8 MPa), Annealed              | 208 °F                  | 98.0 °C                | ISO 75-2/A   |
| Vicat Softening Temperature              |                         |                        |              |
| --                                       | 225 °F                  | 107 °C                 | ISO 306/A120 |
| --                                       | 212 °F                  | 100 °C                 | ISO 306/B50  |
| Electrical                               | Nominal Value (English) | Nominal Value (SI)     | Test Method  |
| Dielectric Constant (1 MHz)              | 2.50                    | 2.50                   | ASTM D150    |
| Dissipation Factor (1 MHz)               | 6.0E-5                  | 6.0E-5                 | ASTM D150    |

#### Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.



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