

# Osterlene® GPPS1.600

General Purpose Polystyrene

Osterman & Company

Message:

GPPS1.600 is a high molecular weight, low melt flow, crystal polystyrene.  
This polymer is tailored for extruded foam applications such as egg cartons, meat trays and food service.  
GPPS1.600 also makes a superior oriented polystyrene sheet.

| General Information                                    |                       |          |             |
|--|-----------------------|----------|-------------|
| Features   | High molecular weight |          |             |
|  | Low liquidity         |          |             |
| Uses   | Food packaging        |          |             |
|  | Bracket tray          |          |             |
| Agency Ratings   | FDA 21 CFR 177.1640   |          |             |
| Processing Method                                      | Extrusion             |          |             |
| Physical   | Nominal Value         | Unit     | Test Method |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)               | 1.6                   | g/10 min | ASTM D1238  |
| Mechanical   | Nominal Value         | Unit     | Test Method |
| Tensile Modulus  | 2960                  | MPa      | ASTM D638   |
| Tensile Strength                                       | 52.4                  | MPa      | ASTM D638   |
| Flexural Modulus                                       | 2960                  | MPa      | ASTM D790   |
| Flexural Strength                                      | 97.9                  | MPa      | ASTM D790   |
| Thermal  | Nominal Value         | Unit     | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Annealed) | 100                   | °C       | ASTM D648   |
| Vicat Softening Temperature                            | 107                   | °C       | ASTM D1525  |
| Flammability   | Nominal Value         |          | Test Method |
| Flame Rating   | HB                    |          | UL 94       |

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