

# SECCO GPPS-251

General Purpose Polystyrene  
Shanghai SECCO Petrochemical Co., Ltd

Message:  
GPPS251 retains high mechanical strength & good mould release, allowing excellent transparency and gloss.

| General Information                               |                             |                   |              |
|---------------------------------------------------|-----------------------------|-------------------|--------------|
| UL YellowCard                                     | E255593-590551              |                   |              |
| Features                                          | Highlight                   |                   |              |
|                                                   | High strength               |                   |              |
|                                                   | Definition, high            |                   |              |
|                                                   | Good demoulding performance |                   |              |
| Uses                                              | Cosmetic Packaging          |                   |              |
|                                                   | Packaging                   |                   |              |
|                                                   | Cup                         |                   |              |
|                                                   | Foam                        |                   |              |
|                                                   | Sheet                       |                   |              |
| Agency Ratings                                    | FDA 21 CFR 177.1640(c) 1    |                   |              |
| RoHS Compliance                                   | RoHS compliance             |                   |              |
| Physical                                          | Nominal Value               | Unit              | Test Method  |
| Density                                           | 1.04                        | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)          | 2.4                         | g/10 min          | ISO 1133     |
| Molding Shrinkage                                 | 0.40 - 0.60                 | %                 | ISO 294-4    |
| Water Absorption (Saturation, 23°C)               | < 0.10                      | %                 | ISO 62       |
| Mechanical                                        | Nominal Value               | Unit              | Test Method  |
| Tensile Stress (Yield)                            | 53.0                        | MPa               | ISO 527-2/50 |
| Tensile Strain (Break)                            | 2.0                         | %                 | ISO 527-2/50 |
| Flexural Modulus <sup>1</sup>                     | 3200                        | MPa               | ISO 178      |
| Flexural Stress <sup>2</sup>                      | 82.0                        | MPa               | ISO 178      |
| Impact                                            | Nominal Value               | Unit              | Test Method  |
| Charpy Unnotched Impact Strength (23°C)           | 10                          | kJ/m <sup>2</sup> | ISO 179/1eU  |
| Thermal                                           | Nominal Value               | Unit              | Test Method  |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 80.0                        | °C                | ISO 75-2/A   |
| Vicat Softening Temperature <sup>3</sup>          | 102                         | °C                | ISO 306/B50  |
| Flammability                                      | Nominal Value               |                   | Test Method  |
| Flame Rating                                      | HB                          |                   | UL 94        |
| Optical                                           | Nominal Value               | Unit              | Test Method  |

|               |            |   |            |
|---------------|------------|---|------------|
| Transmittance | 90.0       | % | ASTM D1003 |
| NOTE          |            |   |            |
| 1.            | 2.0 mm/min |   |            |
| 2.            | 2.0 mm/min |   |            |
| 3.            | in Oil     |   |            |

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