

## Resirene® HF 777

Resirene, S.A. de C.V. - General Purpose Polystyrene

### General Information

#### Product Description

##### FEATURES

- Medium Flow
- Easy to Process
- High Productivity
- Ideal for Thin Wall and Complex Parts
- FDA Rating: 21 CFR 177.1640

##### APPLICATIONS

- Injection Molding
- Coextrusion
- Single Service Cutlery and Drinkware
- Toys

#### General

|                   |                           |                       |                 |
|-------------------|---------------------------|-----------------------|-----------------|
| Material Status   | • Commercial: Active      |                       |                 |
| Availability      | • Europe                  | • Latin America       | • North America |
| Features          | • Fast Molding Cycle      | • Good Processability | • Medium Flow   |
| Uses              | • Kitchenware             | • Thin-walled Parts   |                 |
|                   | • Single-Use Applications | • Toys                |                 |
| Agency Ratings    | • FDA 21 CFR 177.1640     |                       |                 |
| Processing Method | • Coextrusion             | • Injection Molding   |                 |

### Properties <sup>1</sup>

| Physical                                                | Nominal Value | Unit     | Test Method |
|---------------------------------------------------------|---------------|----------|-------------|
| Density / Specific Gravity                              | 1.04          |          | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)                | 8.0           | g/10 min | ASTM D1238  |
| Mechanical                                              | Nominal Value | Unit     | Test Method |
| Tensile Modulus                                         | 512000        | psi      | ASTM D638   |
| Tensile Strength (Break)                                | 5950          | psi      | ASTM D638   |
| Tensile Elongation (Break)                              | 4.0           | %        | ASTM D638   |
| Thermal                                                 | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 172           | °F       | ASTM D648   |
| Vicat Softening Temperature                             | 192           | °F       | ASTM D1525  |
| Flammability                                            | Nominal Value | Unit     | Test Method |
| Flame Rating                                            | HB            |          | UL 94       |
| Optical                                                 | Nominal Value | Unit     | Test Method |
| Light Transmittance                                     | 90.0          | %        | ASTM D1003  |

### Processing Information

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature   | 392 to 410    | °F   |
| Middle Temperature | 410 to 428    | °F   |
| Front Temperature  | 428 to 446    | °F   |
| Nozzle Temperature | 446 to 464    | °F   |

