

## Resirene® 7600

Resirene, S.A. de C.V. - High Impact Polystyrene

### General Information

#### Product Description

##### FEATURES

- High Impact
- Medium Flow
- High Productivity
- Easy to Process
- FDA Rating: 21 CFR 177.1640

##### APPLICATIONS

- Extrusion processes
- Computer cabinets
- Intricate molds
- Blends with GPPS
- Thermoforming

#### General

|                   |                       |                              |                 |
|-------------------|-----------------------|------------------------------|-----------------|
| Material Status   | • Commercial: Active  |                              |                 |
| Availability      | • Europe              | • Latin America              | • North America |
| Features          | • Fast Molding Cycle  | • High Impact Resistance     |                 |
|                   | • Good Processability | • Medium Flow                |                 |
| Uses              | • Blending            | • Molds/Dies/Tools           |                 |
|                   | • Computer Components | • Thermoforming Applications |                 |
| Agency Ratings    | • FDA 21 CFR 177.1640 |                              |                 |
| Processing Method | • Extrusion           | • Injection Molding          | • Thermoforming |

### 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)                | 5.0           | g/10 min | ASTM D1238  |
| Mechanical                                              | Nominal Value | Unit     | Test Method |
| Tensile Modulus                                         | 290000        | psi      | ASTM D638   |
| Tensile Strength (Break)                                | 2760          | psi      | ASTM D638   |
| Tensile Elongation (Break)                              | 60            | %        | ASTM D638   |
| Impact                                                  | Nominal Value | Unit     | Test Method |
| Notched Izod Impact (0.125 in)                          | 2.0           | ft-lb/in | ASTM D256   |
| Thermal                                                 | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 169           | °F       | ASTM D648   |
| Vicat Softening Temperature                             | 185           | °F       | ASTM D1525  |
| Flammability                                            | Nominal Value | Unit     | Test Method |
| Flame Rating                                            | HB            |          | UL 94       |

### Processing Information

| Injection             | Nominal Value | Unit |
|-----------------------|---------------|------|
| Rear Temperature      | 374 to 392    | °F   |
| Middle Temperature    | 392 to 410    | °F   |
| Front Temperature     | 410 to 428    | °F   |
| Nozzle Temperature    | 428 to 446    | °F   |
| Extrusion             | Nominal Value | Unit |
| Cylinder Zone 1 Temp. | 176           | °F   |
| Cylinder Zone 2 Temp. | 356 to 374    | °F   |
| Cylinder Zone 3 Temp. | 374 to 392    | °F   |



|                       |               |
|-----------------------|---------------|
| Cylinder Zone 4 Temp. | 392 to 410 °F |
| Cylinder Zone 5 Temp. | 410 to 428 °F |
| Melt Temperature      | 428 °F        |

Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

