

## Resirene® 6420

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

### General Information

#### Product Description

##### FEATURES

- High Viscosity
- High Impact
- High Productivity
- Easy to process
- FDA: 21 CFR 177.1640

##### APPLICATIONS

- Sheet Extrusion
- Deep Draw Thermoforming
- Blends with GPPS
- Cups and plates

#### General

|                   |                                               |                                         |                 |
|-------------------|-----------------------------------------------|-----------------------------------------|-----------------|
| Material Status   | • Commercial: Active                          |                                         |                 |
| Availability      | • Europe                                      | • Latin America                         | • North America |
| Features          | • Fast Molding Cycle<br>• Good Processability | • High Impact Resistance<br>• Low Flow  |                 |
| Uses              | • Blending<br>• Cups                          | • Sheet<br>• Thermoforming Applications |                 |
| Agency Ratings    | • FDA 21 CFR 177.1640                         |                                         |                 |
| Processing Method | • Extrusion                                   | • Sheet Extrusion                       | • 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)                | 3.0           | g/10 min | ASTM D1238  |
| Mechanical                                              | Nominal Value | Unit     | Test Method |
| Tensile Modulus                                         | 290000        | psi      | ASTM D638   |
| Tensile Strength (Break)                                | 2900          | psi      | ASTM D638   |
| Tensile Elongation (Break)                              | 50            | %        | ASTM D638   |
| Impact                                                  | Nominal Value | Unit     | Test Method |
| Notched Izod Impact (0.125 in)                          | 2.2           | ft·lb/in | ASTM D256   |
| Thermal                                                 | Nominal Value | Unit     | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 176           | °F       | ASTM D648   |
| Vicat Softening Temperature                             | 194           | °F       | ASTM D1525  |
| Flammability                                            | Nominal Value | Unit     | Test Method |
| Flame Rating                                            | HB            |          | UL 94       |

### Processing Information

| 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   |

