

# Resirene HH 108

General Purpose Polystyrene

Resirene, S.A. de C.V.

Message:

Resirene HH 108 is a GPPS with high molecular weight that shows a high thermal resistance and excellent mechanical resistance.

| General Information |                       |  |  |
|---------------------|-----------------------|--|--|
| Features            | High Heat Resistance  |  |  |
|                     | High Molecular Weight |  |  |
|                     | Medium Flow           |  |  |
| Uses                | Cups                  |  |  |
| Agency Ratings      | FDA 21 CFR 177.1640   |  |  |
| Processing Method   | Extrusion             |  |  |
|                     | Injection Molding     |  |  |

| Physical                                 | Nominal Value | Unit     | Test Method |
|------------------------------------------|---------------|----------|-------------|
| Specific Gravity                         | 1.04          | g/cm³    | 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            | 3240          | MPa  | ASTM D638   |
| Tensile Strength (Break)   | 51.7          | MPa  | ASTM D638   |
| Tensile Elongation (Break) | 3.0           | %    | ASTM D638   |

| Impact                        | Nominal Value | Unit | Test Method |
|-------------------------------|---------------|------|-------------|
| Notched Izod Impact (12.7 mm) | 16            | J/m  | ASTM D256   |

| Thermal                                                 | Nominal Value | Unit | Test Method |
|---------------------------------------------------------|---------------|------|-------------|
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 92.0          | °C   | ASTM D648   |
| Vicat Softening Temperature                             | 102           | °C   | ASTM D1525  |

| Flammability           | Nominal Value | Test Method |  |
|------------------------|---------------|-------------|--|
| Flame Rating (1.52 mm) | HB            | UL 94       |  |

| Optical       | Nominal Value | Unit | Test Method |
|---------------|---------------|------|-------------|
| Transmittance | 90.0          | %    | ASTM D1003  |

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature   | 190 to 250    | °C   |
| Middle Temperature | 190 to 250    | °C   |
| Front Temperature  | 200 to 210    | °C   |
| Nozzle Temperature | 210 to 220    | °C   |
| Mold Temperature   | 40.0          | °C   |

| Extrusion | Nominal Value | Unit |
|-----------|---------------|------|
|-----------|---------------|------|

|                       |            |    |
|-----------------------|------------|----|
| Cylinder Zone 1 Temp. | 180 to 190 | °C |
| Cylinder Zone 2 Temp. | 190 to 200 | °C |
| Cylinder Zone 3 Temp. | 200 to 210 | °C |
| Cylinder Zone 4 Temp. | 210 to 220 | °C |
| Cylinder Zone 5 Temp. | 220 to 230 | °C |
| Melt Temperature      | 190 to 250 | °C |

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