

TECHNICAL DATA SHEET

RESIRENE® HH 104

GENERAL PURPOSE POLYSTYRENE (GPPS)

FEATURES

- Medium Flow
- Heat Resistance
- Good Mold Release
- FDA Rating: 21 CFR 177.1640

APPLICATIONS

- Injection Molding
- Pen Barrels
- Disposable Items
- Scholar and Office Supplies

PROPERTIES

| Physical | English | Value | Metric | Value | Test Method |
|---------------------------------|--------------------|--------------------|-------------------|--------------------|-------------|
| Melt Flow Rate (200°C/5.0 Kg) | g/10 min | 4 | g/10 min | 4 | ASTM D1238 |
| Density | lb/ft ³ | 65 | g/cm ³ | 1.04 | ASTM D792 |
| Mechanical | | | | | |
| Break Elongation | % | 5 | % | 5 | ASTM D638 |
| Tensile Strength, Break | Psi | 6,630 | MPa | 46 | ASTM D638 |
| Tensile Modulus | Kpsi | 500 | MPa | 3,450 | ASTM D638 |
| Thermal | | | | | |
| Vicat Temperature | °F | 225 | °C | 107 | ASTM D1525 |
| HDT @ 264 psi (unannealed) | °F | 185 | °C | 85 | ASTM D648 |
| Ignition Characteristics | | | | | |
| Flammability | - | HB | - | HB | UL 94 |
| Optical | | | | | |
| Light Transmittance | % | 90 | % | 90 | ASTM D1003 |

Properties reported in this data sheet are determined according to referred standard methods. Values shown represent averages from typical results measured in the laboratory and are provided only as a guide, not as specification limits.

INJECTION MOLDING CONDITIONS

| | °C | °F |
|--------|---------|---------|
| Rear | 200-210 | 390-410 |
| Center | 210-220 | 410-430 |
| Front | 220-230 | 430-445 |
| Nozzle | 230-240 | 445-465 |

ADDITIONAL INFORMATION

Warning:

Combustion of this material may cause hazardous fumes and gases that may be dangerous to health, especially in enclosed places. It should be noted that excessive heating or long residence time may cause degradation or yellowing.

Note:

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