

## Styrolution PS-168M Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

### Material Notes:

Description: Polystyrene 168M is a high heat, high molecular weight general purpose polystyrene with excellent clarity and high stiffness. Due to its high melt strength and high stiffness. PS-168M is also an excellent choice for food packaging made form extruded foam sheet and biaxially oriented sheet. It offers high stiffness which is designed for extrusion/thermoforming applications, especially for food packaging. Application: Include foamed meat and poultry trays, dinnerware, egg cartons, salad and fruit containers and fast food packaging. Information provided by STYROLUTION, which is a joint venture between BASF and INEOS

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Styrolution-PS-168M-Polystyrene.php](http://www.lookpolymers.com/polymer_Styrolution-PS-168M-Polystyrene.php)

| Physical Properties         | Metric        | English                   | Comments   |
|-----------------------------|---------------|---------------------------|------------|
| Density                     | 1.04 g/cc     | 0.0376 lb/in <sup>3</sup> | ASTM D792  |
| Linear Mold Shrinkage, Flow | 0.01143 cm/cm | 0.01143 in/in             | ASTM D955  |
| Melt Flow                   | 1.5 g/10 min  | 1.5 g/10 min              | ASTM D1238 |

| Mechanical Properties     | Metric     | English        | Comments  |
|---------------------------|------------|----------------|-----------|
| Hardness, Rockwell M      | 78         | 78             | ASTM D785 |
| Tensile Strength at Break | 52.0 MPa   | 7540 psi       | ASTM D638 |
| Flexural Modulus          | 3.31 GPa   | 480 ksi        | ASTM D790 |
| Izod Impact, Notched      | 0.160 J/cm | 0.300 ft-lb/in | ASTM D256 |

| Thermal Properties                          | Metric   | English  | Comments   |
|---|--|--|------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 94.0 Â°C   | 201 Â°F  | ASTM D648  |
| Vicat Softening Point                       | 109 Â°C<br>@Load 1.02 kg,<br>Temperature 120 Â°C | 228 Â°F<br>@Load 2.25 lb,<br>Temperature 248 Â°F | ASTM D1525 |

| Processing Properties | Metric        | English       | Comments |
|-----------------------|---------------|---------------|----------|
| Zone 1                | 138 - 177 Â°C | 280 - 351 Â°F |          |
| Zone 2                | 149 - 193 Â°C | 300 - 379 Â°F |          |
| Zone 3                | 193 - 216 Â°C | 379 - 421 Â°F |          |
| Zone 4                | 216 - 238 Â°C | 421 - 460 Â°F |          |

| Melt Temperature<br>Processing Properties | 210 - 238 Â°C<br>Metric | 410 - 460 Â°F<br>English | Comments |
|---|-------------------------|--------------------------|----------|
| Drying Temperature                        | 71.0 Â°C                | 160 Â°F                  |          |
| Dry Time                                  | 2 - 4 hour              | 2 - 4 hour               |          |

| Descriptive Properties | Value         | Comments |
|------------------------|---------------|----------|
| Commercial Status      | North America |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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