

## Dow Retain® PS-4000 Polystyrene

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Molded, Unreinforced

Material Notes:

Data provided by Dow Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Dow-Retain-PS-4000-Polystyrene.php](http://www.lookpolymers.com/polymer_Dow-Retain-PS-4000-Polystyrene.php)

| Physical Properties | Metric                               | English                              | Comments  |
|---------------------|--------------------------------------|--------------------------------------|-----------|
| Melt Flow           | 5.5 g/10 min                         | 5.5 g/10 min                         | ASTM Data |
|                     | @Load 5.00 kg,<br>Temperature 200 °C | @Load 11.0 lb,<br>Temperature 392 °F |           |

| Mechanical Properties      | Metric     | English       | Comments  |
|----------------------------|------------|---------------|-----------|
| Tensile Strength, Ultimate | 17.9 MPa   | 2600 psi      | ASTM Data |
| Tensile Strength, Yield    | 26.2 MPa   | 3800 psi      | ASTM Data |
| Elongation at Break        | 30 %       | 30 %          | ASTM Data |
| Izod Impact, Notched       | 0.534 J/cm | 1.00 ft-lb/in | ASTM Data |

| Thermal Properties                             | Metric  | English | Comments            |
|------------------------------------------------|---------|---------|---------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 86.7 °C | 188 °F  | Annealed; ASTM Data |
| Vicat Softening Point                          | 101 °C  | 214 °F  |                     |

## Contact Songhan Plastic Technology Co.,Ltd.

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