

## Dow Retain® PS-4378 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-4378-Polystyrene.php](http://www.lookpolymers.com/polymer_Dow-Retain-PS-4378-Polystyrene.php)

| Physical Properties | Metric   | English  | Comments  |
|---------------------|--|--|-----------|
| Melt Flow           | 6.2 g/10 min<br>@Load 5.00 kg,<br>Temperature 200 °C | 6.2 g/10 min<br>@Load 11.0 lb,<br>Temperature 392 °F | ASTM Data |

| Mechanical Properties      | Metric    | English       | Comments  |
|----------------------------|-----------|---------------|-----------|
| Tensile Strength, Ultimate | 25.5 MPa  | 3700 psi      | ASTM Data |
| Tensile Strength, Yield    | 26.2 MPa  | 3800 psi      | ASTM Data |
| Elongation at Break        | 30 %      | 30 %          | ASTM Data |
| Izod Impact, Notched       | 1.01 J/cm | 1.89 ft-lb/in | ASTM Data |

| Thermal Properties                             | Metric  | English | Comments            |
|--|---------|---------|---------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 75.6 °C | 168 °F  | Annealed; ASTM Data |
| Vicat Softening Point                          | 102 °C  | 216 °F  |                     |

## Contact Songhan Plastic Technology Co.,Ltd.

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