

## Solvay Specialty Polymers Amodel® DW-1150 Polyphthalamide (PPA), 50% Glass Fiber

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

### Material Notes:

Amodel® DW-1150 is a 50% glass-fiber-reinforced resin designed for high strength and stiffness and improved hydrolytic stability. This material has low moisture absorption and a low coefficient of thermal expansion, which means excellent dimensional stability. Creep resistance is also exceptional. Features: Chlorine Resistant; Good Chemical Resistance; Good Creep Resistance; Good Dimensional Stability; High Stiffness; High Strength; High Temperature Strength; Low Moisture Absorption Uses: Appliances; Consumer Applications; Filters; Housings; Industrial Applications; Plumbing Parts; Pump Parts; Valves/Valve Parts Injection Molding Notes: Amodel® compounds are shipped in moisture-resistant packages at moisture levels according to specifications. Sealed, undamaged bags should be preferably stored in a dry room at a maximum temperature of 50°C (122°F) and should be protected from possible damage. If only a portion of a package is used, the remaining material should be transferred into a sealable container. It is recommended that Amodel® resins be dried prior to molding. Additional Properties: Flexural Strain at Break - ISO 178 (23°C): 2.3 % Information provided by Solvay Specialty Polymers.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Specialty-Polymers-Amodel-DW-1150-Polyphthalamide-PPA-50-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Amodel-DW-1150-Polyphthalamide-PPA-50-Glass-Fiber.php)

| Physical Properties | Metric    | English                   | Comments    |
|---------------------|-----------|---------------------------|-------------|
| Density             | 1.68 g/cc | 0.0607 lb/in <sup>3</sup> | ISO 1183    |
| Filler Content      | 50 %      | 50 %                      | Glass Fiber |

| Mechanical Properties      | Metric                 | English                    | Comments  |
|----------------------------|------------------------|----------------------------|-----------|
| Tensile Strength at Break  | 280 MPa                | 40600 psi                  | ISO 527-2 |
| Elongation at Break        | 2.1 %                  | 2.1 %                      | ISO 527-2 |
| Tensile Modulus            | 19.8 GPa               | 2870 ksi                   | ISO 527-2 |
| Flexural Strength          | 400 MPa                | 58000 psi                  | ASTM D790 |
| Flexural Modulus           | 18.5 GPa               | 2680 ksi                   | ISO 178   |
| Izod Impact, Notched (ISO) | 12.0 kJ/m <sup>2</sup> | 5.71 ft-lb/in <sup>2</sup> | ISO 180   |
| Charpy Impact Unnotched    | 8.00 J/cm <sup>2</sup> | 38.1 ft-lb/in <sup>2</sup> | ISO 179   |
| Charpy Impact, Notched     | 1.20 J/cm <sup>2</sup> | 5.71 ft-lb/in <sup>2</sup> | ISO 179   |

| Thermal Properties                          | Metric | English | Comments                         |
|---|--------|---------|----------------------------------|
| Deflection Temperature at 1.8 MPa (264 psi) | 300 °C | 572 °F  | Unannealed; Flatwise; ISO 75-2/A |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Processing Properties     | Metric                     | English                    | Comments      |
|---------------------------|----------------------------|----------------------------|---------------|
| Middle Barrel Temperature | 320 - 340 Â°C              | 608 - 644 Â°F              |               |
| Front Barrel Temperature  | 325 - 345 Â°C              | 617 - 653 Â°F              |               |
| Melt Temperature          | 340 - 360 Â°C              | 644 - 680 Â°F              |               |
| Mold Temperature          | 160 Â°C                    | 320 Â°F                    |               |
| Drying Temperature        | 120 Â°C<br>@Time 14400 sec | 248 Â°F<br>@Time 4.00 hour |               |
| Moisture Content          | 0.030 - 0.060 %            | 0.030 - 0.060 %            | Suggested Max |

| Descriptive Properties | Value                | Comments |
|------------------------|----------------------|----------|
| Availability           | Africa & Middle East |          |
|                        | Asia Pacific         |          |
|                        | Europe               |          |
|                        | Latin America        |          |
|                        | North America        |          |
| Color                  | Black; Natural       |          |
| Form                   | Pellets              |          |
| Processing Technique   | Injection Molding    |          |
| RoHS Compliance        | RoHS Compliant       |          |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China