

## Solvay Technyl® A238 Unfilled, Heat Stabilized, Impact Modified Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Heat Stabilized

### Material Notes:

Information provided by Rhodia; Rhodia has been acquired by Solvay.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Solvay-Technyl-A238-Unfilled-Heat-Stabilized-Impact-Modified-Nylon-66.php](http://www.lookpolymers.com/polymer_Solvay-Technyl-A238-Unfilled-Heat-Stabilized-Impact-Modified-Nylon-66.php)

| Physical Properties | Metric    | English                   | Comments       |
|---------------------|-----------|---------------------------|----------------|
| Density             | 1.10 g/cc | 0.0397 lb/in <sup>3</sup> | ISO 1183-A     |
| Water Absorption    | 1.1 %     | 1.1 %                     | 24 Hr.; ISO 62 |

| Mechanical Properties      | Metric                 | English                    | Comments |
|----------------------------|------------------------|----------------------------|----------|
| Elongation at Break        | 30 %                   | 30 %                       | ISO 527  |
| Elongation at Yield        | 5.0 %                  | 5.0 %                      | ISO 527  |
| Tensile Modulus            | 2.55 GPa               | 370 ksi                    | ISO 527  |
| Flexural Strength          | 95.1 MPa               | 13800 psi                  | ISO 178  |
| Flexural Modulus           | 2.25 GPa               | 326 ksi                    | ISO 178  |
| Izod Impact, Notched (ISO) | 8.00 kJ/m <sup>2</sup> | 3.81 ft-lb/in <sup>2</sup> | ISO 180  |

| Thermal Properties                          | Metric                   | English                    | Comments   |
|---|--------------------------|----------------------------|------------|
| Melting Point                               | 263.0 Â°C                | 505.4 Â°F                  | ISO 3146-C |
| Deflection Temperature at 1.8 MPa (264 psi) | 70.0 Â°C                 | 158 Â°F                    | ISO 75-2   |
| Flammability, UL94                          | HB<br>@Thickness 1.60 mm | HB<br>@Thickness 0.0630 in |            |

| Processing Properties     | Metric          | English       | Comments         |
|---------------------------|-----------------|---------------|------------------|
| Feed Temperature          | 250 - 270 Â°C   | 482 - 518 Â°F |                  |
| Middle Barrel Temperature | 260 - 280 Â°C   | 500 - 536 Â°F | Compression Zone |
| Front Barrel Temperature  | 270 - 290 Â°C   | 518 - 554 Â°F |                  |
| Melt Temperature          | 270 - 290 Â°C   | 518 - 554 Â°F |                  |
| Mold Temperature          | 60.0 - 90.0 Â°C | 140 - 194 Â°F | Surface          |

| Drying Temperature<br>Processing Properties | 80.0 A°C<br>Metric | 176 A°F<br>English | Dehumidifying Dryer<br>Comments |
|---|--------------------|--------------------|---------------------------------|
| Dry Time                                    | 3 - 4 hour         | 3 - 4 hour         |                                 |
| Moisture Content                            | <= 0.20 %          | <= 0.20 %          |                                 |
| Back Pressure                               | 0.345 - 0.689 MPa  | 50.0 - 100 psi     |                                 |
| Fill Speed                                  | 300 - 600 mm/sec   | 11.8 - 23.6 in/sec | Peripheral Screw Speed          |

| Descriptive Properties                 | Value                         | Comments |
|--|-------------------------------|----------|
| Injection Speed (cm <sup>3</sup> /sec) | 80 - 150 cm <sup>3</sup> /sec |          |

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