

## BASF Ultramid® A34 01 PA66 (Conditioned)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , Unreinforced, Flame Retardant

### Material Notes:

Ultramid A34 01 is an intermediate viscosity, PA66 grade. It conforms to FDA requirements including, 21 CFR 177.1500,EU Directive 2002/72/EC, the German BfR recommendation "X Polyamide", 1.6.1998 or legislations for other countries will be provided on request.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BASF-Ultramid-A34-01-PA66-Conditioned.php](http://www.lookpolymers.com/polymer_BASF-Ultramid-A34-01-PA66-Conditioned.php)

| Physical Properties                | Metric  | English   | Comments                              |
|------------------------------------|---|---|---------------------------------------|
| Density                            | 1.13 g/cc   | 0.0408 lb/in <sup>3</sup>                           | dry; ISO 1183                         |
| Water Absorption                   | 8.5 %   | 8.5 %   | beginning dry; ISO 62                 |
| Moisture Absorption at Equilibrium | 2.2 %   | 2.2 %   | beginning dry (23°C/50% R.H.); ISO 62 |
| Relative Viscosity                 | 3.5 cP  | 3.5 cP  | ISO Test; 96 % SAV                    |
| Viscosity Test                     | 205 cm <sup>3</sup> /g                              | 205 cm <sup>3</sup> /g                              | Viscosity number                      |
| Linear Mold Shrinkage              | 0.014 cm/cm   | 0.014 in/in   | ASTM Data; MD                         |
| Melt Flow                          | 40 g/10 min<br>@Load 5.00 kg,<br>Temperature 275 °C | 40 g/10 min<br>@Load 11.0 lb,<br>Temperature 527 °F | ISO 1133                              |

| Mechanical Properties             | Metric   | English    | Comments                          |
|-----------------------------------|----------|------------|-----------------------------------|
| Tensile Strength, Yield           | 60.0 MPa | 8700 psi   | 50mm/min; ISO 527                 |
| Elongation at Break               | >= 50 %  | >= 50 %    | 50mm/min, Nominal strain; ISO 527 |
| Elongation at Yield               | 20 %     | 20 %       | 50mm/min; ISO 527                 |
| Tensile Modulus                   | 1.60 GPa | 232 ksi    | 1mm/min; ISO 527                  |
| Charpy Impact Unnotched           | NB       | NB         | ISO 179                           |
| Tensile Creep Modulus, 1 hour     | 1100 MPa | 160000 psi | ISO 899                           |
| Tensile Creep Modulus, 1000 hours | 700 MPa  | 102000 psi | ISO 899                           |

| Thermal Properties | Metric | English | Comments  |
|--------------------|--------|---------|-----------|
| Melting Point      | 255 °C | 491 °F  | 10 K/min  |
|                    | 260 °C | 500 °F  | ASTM Test |

| Electrical Properties      | Metric                | English               | Comments  |
|----------------------------|-----------------------|-----------------------|-----------|
| Volume Resistivity         | 1.00e+10 ohm-cm       | 1.00e+10 ohm-cm       | IEC 60093 |
| Surface Resistance         | 1.00e+10 ohm          | 1.00e+10 ohm          | IEC 60093 |
| Dielectric Constant        | 5.0                   | 5.0                   | IEC 60250 |
|                            | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz |           |
| Dissipation Factor         | 0.20                  | 0.20                  | IEC 60250 |
|                            | @Frequency 1.00e+6 Hz | @Frequency 1.00e+6 Hz |           |
| Comparative Tracking Index | 600 V                 | 600 V                 | IEC 60112 |

| Descriptive Properties       | Value                    | Comments |
|------------------------------|--------------------------|----------|
| Color                        | Natural                  |          |
| Commercial Status            | North America and Europe |          |
| FDA                          | 21 CFR 177.1500          |          |
| Form                         | Pellets                  |          |
| Impact Modified              | No                       |          |
| Primary Processing Technique | Film Extrusion           |          |
| Processing                   | Injection Molding        |          |
|                              | Other Extrusion          |          |

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