

## PolyOne Bergamid™ A70 white Polyamide 66 (Nylon 66)

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

Information provided by PolyOne

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_PolyOne-Bergamid-A70-white-Polyamide-66-Nylon-66.php](http://www.lookpolymers.com/polymer_PolyOne-Bergamid-A70-white-Polyamide-66-Nylon-66.php)

| Physical Properties | Metric    | English                   | Comments                            |
|---------------------|-----------|---------------------------|-------------------------------------|
| Density             | 1.13 g/cc | 0.0408 lb/in <sup>3</sup> | ±0.03 g/cm <sup>3</sup> ; DIN 53479 |

| Mechanical Properties   | Metric                  | English                    | Comments     |
|-------------------------|-------------------------|----------------------------|--------------|
| Tensile Strength, Yield | 60.0 MPa                | 8700 psi                   | ISO 527-2/50 |
|                         | @Temperature 23.0 °C    | @Temperature 73.4 °F       |              |
| Elongation at Yield     | 25 %                    | 25 %                       | ISO 527-2/50 |
|                         | @Temperature 23.0 °C    | @Temperature 73.4 °F       |              |
| Tensile Modulus         | 1.60 GPa                | 232 ksi                    | ISO 527-2/1  |
|                         | @Temperature 23.0 °C    | @Temperature 73.4 °F       |              |
| Charpy Impact Unnotched | NB                      | NB                         | ISO 179/1eU  |
|                         | @Temperature 23.0 °C    | @Temperature 73.4 °F       |              |
|                         | NB                      | NB                         | ISO 179/1eU  |
|                         | @Temperature -30.0 °C   | @Temperature -22.0 °F      |              |
| Charpy Impact, Notched  | 0.840 J/cm <sup>2</sup> | 4.00 ft-lb/in <sup>2</sup> | ISO 179/1eA  |
|                         | @Temperature -30.0 °C   | @Temperature -22.0 °F      |              |
|                         | 5.30 J/cm <sup>2</sup>  | 25.2 ft-lb/in <sup>2</sup> | ISO 179/1eA  |
|                         | @Temperature 23.0 °C    | @Temperature 73.4 °F       |              |

| Thermal Properties                          | Metric  | English | Comments                                |
|---------------------------------------------|---------|---------|-----------------------------------------|
| Melting Point                               | 261 °C  | 502 °F  | ISO 3146                                |
| Maximum Service Temperature, Air            | 100 °C  | 212 °F  | Continuous (GTP 50% Tensile); IEC 60216 |
|                                             | 200 °C  | 392 °F  | Short Time; IEC 60216                   |
| Deflection Temperature at 0.46 MPa (66 psi) | 220 °C  | 428 °F  | Unannealed; ISO 75-2/B                  |
| Deflection Temperature at 1.8 MPa           | 80.0 °C | 176 °F  |                                         |

| (264 psi)<br>Thermal Properties | Metric                | English               | Unannealed; ISO 75-2/A<br>Comments |
|---------------------------------|-----------------------|-----------------------|------------------------------------|
| Electrical Properties           | Metric                | English               | Comments                           |
| Volume Resistivity              | 1.00e+12 ohm-cm       | 1.00e+12 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 |                                    |
| Dielectric Strength             | 80.0 kV/mm            | 2030 kV/in            | IEC 60243-1                        |
| 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                 | Solution A; IEC 60112              |

| Descriptive Properties | Value                   | Comments               |
|------------------------|-------------------------|------------------------|
| Forms                  | Pellets                 |                        |
| Generic Material       | Nylon 66                |                        |
| Generic Name           | Polyamide 66 (Nylon 66) |                        |
| K-Value                | 74.0 to 78.0            | No Standard; 96% H2SO4 |
| Regional Availability  | Africa & Middle East    |                        |
|                        | Asia Pacific            |                        |
|                        | Europe                  |                        |
| 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