

PolyOne Bergamid™ A700 G25 U-SO 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-A700-G25-U-SO-Polyamide-66-Nylon-66.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|---------------------------|-------------------------------------|
| Density | 1.38 g/cc | 0.0499 lb/in ³ | ±0.02 g/cm ³ ; DIN 53479 |
| Ash | 25 % | 25 % | ISO 3451 |

| Mechanical Properties | Metric | English | Comments |
|---------------------------|-------------------------|----------------------------|---------------------|
| Tensile Strength at Break | 160 MPa | 23200 psi | ISO 527-2/5 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Elongation at Break | 3.0 % | 3.0 % | ISO 527-2/5 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Tensile Modulus | 8.50 GPa | 1230 ksi | ISO 527-2/1 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact Unnotched | 6.00 J/cm ² | 28.6 ft-lb/in ² | ISO 179/1eA |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | 6.50 J/cm ² | 30.9 ft-lb/in ² | Type 1; ISO 179/1eA |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact, Notched | 0.900 J/cm ² | 4.28 ft-lb/in ² | ISO 179/1eA |
| | @Temperature -30.0 °C | @Temperature -22.0 °F | |
| Charpy Impact, Notched | 1.20 J/cm ² | 5.71 ft-lb/in ² | 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 | 120 °C | 248 °F | Continuous (GTP 50% Tensile); IEC 60216 |
| | 220 °C | 428 °F | Short Time; IEC 60216 |
| Deflection Temperature at 0.46 MPa (66 psi) | 250 °C | 482 °F | Unannealed; ISO 75-2/B |

| Thermal Properties | Metric | English | Comments |
|--------------------|------------------------------|--------------------------------|--|
| Flammability, UL94 | @Thickness 3.00 mm | @Thickness 0.118 in | ALL; Internal Method |
| Glow Wire Test | 960 °C @Thickness 3.00 mm | 1760 °F @Thickness 0.118 in | 0.8 mm wire; Ignition Temperature; IEC 60695-2-13 |

| Electrical Properties | Metric | English | Comments |
|----------------------------|--------------------------------|--------------------------------|-----------------------|
| Volume Resistivity | 1.00e+15 ohm-cm | 1.00e+15 ohm-cm | IEC 60093 |
| Surface Resistance | 1.00e+13 ohm | 1.00e+13 ohm | IEC 60093 |
| Dielectric Constant | 3.5 @Frequency 1.00e+6 Hz | 3.5 @Frequency 1.00e+6 Hz | IEC 60250 |
| Dielectric Strength | 80.0 kV/mm | 2030 kV/in | IEC 60243-1 |
| Dissipation Factor | 0.015 @Frequency 1.00e+6 Hz | 0.015 @Frequency 1.00e+6 Hz | IEC 60250 |
| Comparative Tracking Index | 400 V | 400 V | Solution A; IEC 60112 |

| Descriptive Properties | Value | Comments |
|------------------------|---|----------|
| Additive | Heat Stabilizer | |
| Features | Flame Retardant | |
| | Halogen Free | |
| | Heat Stabilized | |
| Filler / Reinforcement | Glass Fiber Reinforcement, 25% Filler by Weight | |
| Forms | Pellets | |
| Generic Material | Nylon 66 | |
| Generic Name | Polyamide 66 (Nylon 66) | |
| Regional Availability | Africa & Middle East | |
| | Asia Pacific | |
| | Europe | |
| RoHS Compliance | RoHS Compliant | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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