

## Polyram PlusTek PA309G6 Nylon 6.6, 30% Glass Fiber

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

### Material Notes:

30% glass fiber reinforced, UV stabilized polyamide 6.6 for injection molding applications Information provided by Polyram Ram On Ind.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polyram-PlusTek-PA309G6-Nylon-66-30-Glass-Fiber.php](http://www.lookpolymers.com/polymer_Polyram-PlusTek-PA309G6-Nylon-66-30-Glass-Fiber.php)

| Physical Properties                | Metric       | English                   | Comments         |
|------------------------------------|--------------|---------------------------|------------------|
| Density                            | 1.37 g/cc    | 0.0495 lb/in <sup>3</sup> | DIN 53479        |
| Water Absorption                   | 5.6 %        | 5.6 %                     | DIN 53495        |
| Moisture Absorption at Equilibrium | 1.7 %        | 1.7 %                     | 50%RH; DIN 53714 |
| Linear Mold Shrinkage              | 0.0020 cm/cm | 0.0020 in/in              |                  |

| Mechanical Properties   | Metric                            | English                               | Comments  |
|-------------------------|-----------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 175 MPa                           | 25400 psi                             | ASTM-D638 |
| Elongation at Break     | 2.5 %                             | 2.5 %                                 | ASTM-D638 |
| Tensile Modulus         | 9.80 GPa                          | 1420 ksi                              | ASTM-D790 |
| Flexural Strength       | 279 MPa                           | 40500 psi                             | ASTM D790 |
| Flexural Modulus        | 9.20 GPa                          | 1330 ksi                              | ASTM-D790 |
| Izod Impact, Notched    | 1.10 J/cm<br>@Temperature 23.0 °C | 2.06 ft-lb/in<br>@Temperature 73.4 °F | ASTM-D256 |

| Thermal Properties                          | Metric                   | English                   | Comments              |
|---|--------------------------|---------------------------|-----------------------|
| Melting Point                               | 256 °C                   | 493 °F                    |                       |
| Maximum Service Temperature, Air            | 120 °C                   | 248 °F                    | Continuous Use        |
|   | 240 °C                   | 464 °F                    | Short peaks operation |
| Deflection Temperature at 0.46 MPa (66 psi) | 250 °C                   | 482 °F                    | DIN 53461             |
| Deflection Temperature at 1.8 MPa (264 psi) | 250 °C                   | 482 °F                    | DIN 53461             |
| Flammability, UL94                          | HB<br>@Thickness 3.00 mm | HB<br>@Thickness 0.118 in |                       |

| Electrical Properties | Metric             | English            | Comments   |
|-----------------------|--------------------|--------------------|------------|
| Volume Resistivity    | 1.00e+15 ohm-cm    | 1.00e+15 ohm-cm    | DIN 53482  |
| Surface Resistance    | 1.00e+12 ohm       | 1.00e+12 ohm       | DIN 53482  |
| Dielectric Constant   | 3.5                | 3.5                | VDE 0303/4 |
|                       | @Frequency 1e+6 Hz | @Frequency 1e+6 Hz |            |
| Dielectric Strength   | 90.0 kV/mm         | 2290 kV/in         | VDE 0303/4 |

## 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