

## Polyram PlusTek PA880 Nylon 6.6, Impact Modified

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

### Material Notes:

Super tough - impact modified 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-PA880-Nylon-66-Impact-Modified.php](http://www.lookpolymers.com/polymer_Polyram-PlusTek-PA880-Nylon-66-Impact-Modified.php)

| Physical Properties                | Metric              | English                   | Comments         |
|------------------------------------|---------------------|---------------------------|------------------|
| Density                            | 1.08 g/cc           | 0.0390 lb/in <sup>3</sup> | DIN 53479        |
| Water Absorption                   | 6.7 %               | 6.7 %                     | DIN 53495        |
| Moisture Absorption at Equilibrium | 2.1 %               | 2.1 %                     | 50%RH; DIN 53714 |
| Linear Mold Shrinkage              | 0.017 - 0.025 cm/cm | 0.017 - 0.025 in/in       |                  |

| Mechanical Properties   | Metric                            | English                               | Comments  |
|-------------------------|-----------------------------------|---------------------------------------|-----------|
| Hardness, Rockwell R    | 118                               | 118                                   | ASTM-D785 |
| Tensile Strength, Yield | 45.0 MPa                          | 6530 psi                              | ASTM-D638 |
| Elongation at Break     | 55 %                              | 55 %                                  | ASTM-D638 |
| Flexural Strength       | 65.0 MPa                          | 9430 psi                              | ASTM D790 |
| Flexural Modulus        | 1.45 GPa                          | 210 ksi                               | ASTM-D790 |
| Izod Impact, Notched    | 11.0 J/cm<br>@Temperature 23.0 °C | 20.6 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            | 110 °C                   | 230 °F                    | Continuous Use        |
|                                             | >= 180 °C                | >= 356 °F                 | Short peaks operation |
| Deflection Temperature at 0.46 MPa (66 psi) | 219 °C                   | 426 °F                    | DIN 53461             |
| Deflection Temperature at 1.8 MPa (264 psi) | 80.0 °C                  | 176 °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+14 ohm-cm    | 1.00e+14 ohm-cm    | DIN 53482  |
| Surface Resistance    | 1.00e+13 ohm       | 1.00e+13 ohm       | DIN 53482  |
| Dielectric Constant   | 3.1                | 3.1                | 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.

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