

## Polyram RamSter PE300J6 PET, 30% Glass Fiber and Glass Bead Reinforced

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), 30% Glass Reinforced

### Material Notes:

30% Glass-fiber and glass beads reinforced, high stiffness PET for injection molding applications. Information provided by Polyram Ram On Ind.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Polyram-RamSter-PE300J6-PET-30-Glass-Fiber-and-Glass-Bead-Reinforced.php](http://www.lookpolymers.com/polymer_Polyram-RamSter-PE300J6-PET-30-Glass-Fiber-and-Glass-Bead-Reinforced.php)

| Physical Properties                | Metric  | English   | Comments                 |
|------------------------------------|---|---|--------------------------|
| Density                            | 1.53 g/cc   | 0.0553 lb/in <sup>3</sup>                           | DIN 53479                |
| Water Absorption                   | 0.50 %  | 0.50 %  | DIN 53495                |
| Moisture Absorption at Equilibrium | 0.20 %  | 0.20 %  | 23° C, 50% RH; DIN 53714 |
| Linear Mold Shrinkage              | 0.0040 cm/cm  | 0.0040 in/in  |                          |
| Melt Flow                          | 10 g/10 min<br>@Load 2.16 kg,<br>Temperature 280 °C | 10 g/10 min<br>@Load 4.76 lb,<br>Temperature 536 °F | ISO 1133                 |

| Mechanical Properties   | Metric                             | English                               | Comments  |
|-------------------------|------------------------------------|---------------------------------------|-----------|
| Tensile Strength, Yield | 110 MPa                            | 16000 psi                             | ASTM-D638 |
| Elongation at Break     | 4.0 %                              | 4.0 %                                 | ASTM-D638 |
| Flexural Strength       | 160 MPa                            | 23200 psi                             | ASTM D790 |
| Flexural Modulus        | 6.00 GPa                           | 870 ksi                               | ASTM-D790 |
| Izod Impact, Notched    | 0.850 J/cm<br>@Temperature 23.0 °C | 1.59 ft-lb/in<br>@Temperature 73.4 °F | ASTM-D256 |

| Thermal Properties                          | Metric                   | English                   | Comments  |
|---|--------------------------|---------------------------|-----------|
| Melting Point                               | 260 °C                   | 500 °F                    |           |
| Deflection Temperature at 0.46 MPa (66 psi) | 255 °C                   | 491 °F                    | DIN 53461 |
| Deflection Temperature at 1.8 MPa (264 psi) | 235 °C                   | 455 °F                    | DIN 53461 |
| Flammability, UL94                          | HB<br>@Thickness 3.00 mm | HB<br>@Thickness 0.118 in |           |
| Glow Wire Test                              | 750 °C                   | 1380 °F                   |           |

| Thermal Properties    | Metric                            | English                           | Comments   |
|-----------------------|-----------------------------------|-----------------------------------|------------|
| Electrical Properties | Metric                            | English                           | Comments   |
| Volume Resistivity    | $\geq 1.00 \times 10^{16}$ ohm-cm | $\geq 1.00 \times 10^{16}$ ohm-cm | DIN 53482  |
| Dielectric Constant   | 3.6                               | 3.6                               | VDE 0303/4 |
|                       | @Frequency 1e+6 Hz                | @Frequency 1e+6 Hz                |            |
| Dielectric Strength   | 29.0 kV/mm                        | 737 kV/in                         | VDE 0303/4 |

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