

## Multibase Nylex™ 2185 R30 Polyamide + PP

Category : Polymer , Thermoplastic , Nylon , Polypropylene (PP)

### Material Notes:

Glass fiber reinforcement, 30% Filler by Weight Features: Crack Resistance, Good Dimensional Stability, Good Impact Resistance, Good Moisture Resistant Processability, Good Forms: Pellets Processing Methods: Injection Molding Uses: Electrical Parts Housing, Electrical Safety Equipment Information provided by Multibase

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Multibase-Nylex-2185-R30-Polyamide-PP.php](http://www.lookpolymers.com/polymer_Multibase-Nylex-2185-R30-Polyamide-PP.php)

| Physical Properties   | Metric                               | English                              | Comments            |
|-----------------------|--------------------------------------|--------------------------------------|---------------------|
| Specific Gravity      | 1.35 g/cc                            | 1.35 g/cc                            | ASTM 792            |
| Water Absorption      | 0.65 %                               | 0.65 %                               | ASTM D570           |
| Linear Mold Shrinkage | 0.020 cm/cm                          | 0.020 in/in                          | ASTM D955           |
| Melt Flow             | 0.71 g/10 min                        | 0.71 g/10 min                        | Cond. Q; ASTM D1238 |
|                       | 2.8 g/10 min                         | 2.8 g/10 min                         | ASTM D1238          |
|                       | @Load 2.16 kg,<br>Temperature 230 °C | @Load 4.76 lb,<br>Temperature 446 °F |                     |

| Mechanical Properties      | Metric    | English       | Comments           |
|----------------------------|-----------|---------------|--------------------|
| Tensile Strength, Ultimate | 54.3 MPa  | 7870 psi      | ASTM D638          |
| Elongation at Break        | 23 %      | 23 %          | ASTM D638          |
| Flexural Strength          | 75.2 MPa  | 10900 psi     | ASTM D790          |
| Flexural Modulus           | 4.21 GPa  | 611 ksi       | Tangent; ASTM D790 |
| Izod Impact, Notched       | 1.33 J/cm | 2.50 ft-lb/in | 73°F; ASTM D256    |
| Gardner Impact             | 1.356 J   | 1.000 ft-lb   | ASTM D3029         |

| Thermal Properties                          | Metric | English | Comments              |
|---|--------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 240 °C | 464 °F  | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 224 °C | 435 °F  | Unannealed; ASTM D648 |

| Processing Properties   | Metric | English | Comments |
|-------------------------|--------|---------|----------|
| Rear Barrel Temperature | 205 °C | 401 °F  |          |

| Middle Barrel Temperature<br>Processing Properties | 208 °C<br>Metric | 406 °F<br>English | Comments |
|--|------------------|-------------------|----------|
| Front Barrel Temperature                           | 213 °C           | 415 °F            |          |
| Nozzle Temperature                                 | 213 °C           | 415 °F            |          |
| Mold Temperature                                   | 13.0 - 47.8 °C   | 55.4 - 118 °F     |          |
| Injection Pressure                                 | 2.41 - 8.27 MPa  | 350 - 1200 psi    |          |
| Back Pressure                                      | 0.345 - 1.03 MPa | 50.0 - 150 psi    |          |

| Descriptive Properties | Value         | Comments |
|------------------------|---------------|----------|
| Injection Rate         | Moderate-Fast |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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