

## DuPont Performance Polymers Minlon® EFE6096 GY090A Nylon 66 (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% Mineral Filled

### Material Notes:

Minlon® EFE6096 GY090A is a 15% mineral reinforced impact modified nylon 66 resin. Information provided by DuPont Performance Polymers

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DuPont-Performance-Polymers-Minlon-EFE6096-GY090A-Nylon-66-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_DuPont-Performance-Polymers-Minlon-EFE6096-GY090A-Nylon-66-nbspUnverified-Data.php)

| Physical Properties               | Metric               | English              | Comments                                      |
|-----------------------------------|----------------------|----------------------|-----------------------------------------------|
| Density                           | 1.23 g/cc            | 0.0444 lb/in³        | DAM; ISO 1183                                 |
| Filler Content                    | 15 %                 | 15 %                 | DAM                                           |
| Water Absorption                  | 2.1 %                | 2.1 %                | Equilibrium 50%RH; DAM; ISO 62, Similar to    |
|                                   | @Temperature 23.0 °C | @Temperature 73.4 °F |                                               |
|                                   | 7.7 %                | 7.7 %                | Saturation, immersed; DAM; ISO 62, Similar to |
|                                   | @Temperature 23.0 °C | @Temperature 73.4 °F |                                               |
| Linear Mold Shrinkage, Flow       | 0.011 cm/cm          | 0.011 in/in          | DAM; ISO 294-4                                |
|                                   | @Thickness 2.00 mm   | @Thickness 0.0787 in |                                               |
| Linear Mold Shrinkage, Transverse | 0.011 cm/cm          | 0.011 in/in          | DAM; ISO 294-4                                |
|                                   | @Thickness 2.00 mm   | @Thickness 0.0787 in |                                               |

| Mechanical Properties     | Metric               | English              | Comments       |
|---------------------------|----------------------|----------------------|----------------|
| Tensile Strength at Break | 52.0 MPa             | 7540 psi             | 50%RH; ISO 527 |
|                           | @Temperature 23.0 °C | @Temperature 73.4 °F |                |
|                           | 76.0 MPa             | 11000 psi            | DAM; ISO 527   |
|                           | @Temperature 23.0 °C | @Temperature 73.4 °F |                |
| Tensile Strength          | 79.0 MPa             | 11500 psi            | DAM; ASTM D638 |
|                           | @Temperature 23.0 °C | @Temperature 73.4 °F |                |
| Elongation at Break       | 17 %                 | 17 %                 | DAM; ASTM D638 |
|                           | @Temperature 23.0 °C | @Temperature 73.4 °F |                |
|                           | 21 %                 | 21 %                 | DAM; ISO 527   |
|                           | @Temperature 23.0 °C | @Temperature 73.4 °F |                |
|                           | >= 50 %              | >= 50 %              |                |

| Mechanical Properties      | Metric<br>@ Temperature 23.0 °C      | English<br>@ Temperature 73.4 °F        | 50%RH; ISO 527<br>Comments |
|----------------------------|--------------------------------------|-----------------------------------------|----------------------------|
|                            | 52 %<br>@Temperature 23.0 °C         | 52 %<br>@Temperature 73.4 °F            | 50%RH; ISO 527             |
| Tensile Modulus            | 1.80 GPa<br>@Temperature 23.0 °C     | 261 ksi<br>@Temperature 73.4 °F         | 50%RH; ISO 527             |
|                            | 3.80 GPa<br>@Temperature 23.0 °C     | 551 ksi<br>@Temperature 73.4 °F         | DAM; ISO 527               |
| Flexural Modulus           | 3.72 GPa<br>@Temperature 23.0 °C     | 540 ksi<br>@Temperature 73.4 °F         | DAM; ASTM D790             |
| Izod Impact, Notched       | 0.640 J/cm<br>@Temperature 23.0 °C   | 1.20 ft-lb/in<br>@Temperature 73.4 °F   | DAM; ASTM D256             |
| Izod Impact, Notched (ISO) | 6.00 kJ/m²<br>@Temperature 23.0 °C   | 2.86 ft-lb/in²<br>@Temperature 73.4 °F  | DAM; ISO 180/1A            |
|                            | 11.0 kJ/m²<br>@Temperature 23.0 °C   | 5.23 ft-lb/in²<br>@Temperature 73.4 °F  | 50%RH; ISO 180/1A          |
| Charpy Impact Unnotched    | 0.600 J/cm²<br>@Temperature -30.0 °C | 2.86 ft-lb/in²<br>@Temperature -22.0 °F | DAM; ISO 179/1eU           |
|                            | 10.0 J/cm²<br>@Temperature 23.0 °C   | 47.6 ft-lb/in²<br>@Temperature 73.4 °F  | DAM; ISO 179/1eU           |
|                            | NB<br>@Temperature 23.0 °C           | NB<br>@Temperature 73.4 °F              | 50%RH; ISO 179/1eU         |
| Charpy Impact, Notched     | 0.750 J/cm²<br>@Temperature 23.0 °C  | 3.57 ft-lb/in²<br>@Temperature 73.4 °F  | DAM; ISO 179/1eA           |
|                            | 1.50 J/cm²<br>@Temperature 23.0 °C   | 7.14 ft-lb/in²<br>@Temperature 73.4 °F  | 50%RH; ISO 179/1eA         |

| Thermal Properties                          | Metric  | English | Comments                      |
|---------------------------------------------|---------|---------|-------------------------------|
| Melting Point                               | 263 °C  | 505 °F  | 10°C/min; DAM; ISO 11357-1/-3 |
| Deflection Temperature at 1.8 MPa (264 psi) | 75.0 °C | 167 °F  | DAM; ISO 75-1/-2              |

| Processing Properties | Metric | English | Comments |
|-----------------------|--------|---------|----------|
|-----------------------|--------|---------|----------|

| Processing Properties | Metric           | English          | Comments     |
|-----------------------|------------------|------------------|--------------|
|                       | 295 °C           | 563 °F           | DAM; Optimum |
| Mold Temperature      | 70.0 - 120 °C    | 158 - 248 °F     | DAM          |
|                       | 100 °C           | 212 °F           | DAM; optimum |
| Drying Temperature    | 80.0 °C          | 176 °F           | DAM          |
| Dry Time              | 2.00 - 4.00 hour | 2.00 - 4.00 hour | DAM          |
| Moisture Content      | <= 0.20 %        | <= 0.20 %        | DAM          |

| Descriptive Properties | Value                                                       | Comments       |
|------------------------|-------------------------------------------------------------|----------------|
| Drying Recommended     | Yes, if moisture content of resin exceeds recommended level | DAM            |
| Filler                 | Mineral filler                                              | DAM            |
| Forms                  | Pellets                                                     | DAM            |
| Generic                | Nylon 66                                                    | DAM            |
| Heat Stabilized        | Yes                                                         | DAM            |
| Material Status        | Current                                                     | DAM            |
| Part Marking Code      | >PA66-IMD15<                                                | ISO 11469; DAM |
| Polymer Family         | Polyamide                                                   | DAM            |
| Polymer Type           | PA66                                                        | DAM            |
| Processing Method      | Injection Molding                                           | DAM            |
| Product Category       | Low Warp Resins                                             | DAM            |
|                        | Mineral Reinforced Resins                                   | DAM            |
| Resin Identification   | PA66-IMD15                                                  | ISO 1043; DAM  |
| RoHS Compliance        | Contact Manufacturer                                        | DAM            |

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