

## Clariant PA213M40 Nylon 6, 40% Mineral Reinforced, Heat Stabilized

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 40% Mineral Filled , Nylon 6, Heat Stabilized

### Material Notes:

Data provided by Clariant Masterbatches

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Clariant-PA213M40-Nylon-6-40-Mineral-Reinforced-Heat-Stabilized.php](http://www.lookpolymers.com/polymer_Clariant-PA213M40-Nylon-6-40-Mineral-Reinforced-Heat-Stabilized.php)

| Physical Properties         | Metric       | English      | Comments   |
|-----------------------------|--------------|--------------|------------|
| Specific Gravity            | 1.49 g/cc    | 1.49 g/cc    | ASTM D792  |
| Filler Content              | 40 %         | 40 %         | ASTM D2584 |
| Linear Mold Shrinkage, Flow | 0.0060 cm/cm | 0.0060 in/in | ASTM D955  |

| Mechanical Properties   | Metric                             | English                                | Comments  |
|-------------------------|------------------------------------|----------------------------------------|-----------|
| Tensile Strength, Yield | 75.8 MPa                           | 11000 psi                              | ASTM D638 |
| Elongation at Yield     | 3.0 %                              | 3.0 %                                  | ASTM D638 |
| Flexural Yield Strength | 124 MPa                            | 18000 psi                              | ASTM D790 |
| Flexural Modulus        | 5.52 GPa                           | 800 ksi                                | ASTM D790 |
| Izod Impact, Notched    | 0.481 J/cm<br>@Temperature 22.8 °C | 0.900 ft-lb/in<br>@Temperature 73.0 °F | ASTM D256 |

| Thermal Properties                          | Metric | English | Comments  |
|---------------------------------------------|--------|---------|-----------|
| Deflection Temperature at 1.8 MPa (264 psi) | 121 °C | 250 °F  | ASTM D648 |

| Processing Properties     | Metric                             | English                           | Comments                                     |
|---------------------------|------------------------------------|-----------------------------------|----------------------------------------------|
| Rear Barrel Temperature   | 249 - 266 °C                       | 480 - 510 °F                      |                                              |
| Middle Barrel Temperature | 249 - 266 °C                       | 480 - 510 °F                      |                                              |
| Front Barrel Temperature  | 254 - 271 °C                       | 490 - 520 °F                      |                                              |
| Nozzle Temperature        | 254 - 274 °C                       | 490 - 525 °F                      |                                              |
| Melt Temperature          | 254 - 271 °C                       | 490 - 520 °F                      |                                              |
| Mold Temperature          | 79.4 - 121 °C                      | 175 - 250 °F                      |                                              |
| Dry Time                  | 2 - 4 hour<br>@Temperature 79.4 °C | 2 - 4 hour<br>@Temperature 175 °F | to ensure moisture content is less than 0.2% |

| Processing Properties | Metric          | English         | Comments  |
|-----------------------|-----------------|-----------------|-----------|
| Injection Pressure    | 4.90 - 8.27 MPa | 720 - 1200 psi  | Secondary |
|                       | 8.27 - 13.8 MPa | 1200 - 2000 psi | Initial   |
| Back Pressure         | 0.345 MPa       | 50.0 psi        |           |
| Shot Size             | 30 - 80 %       | 30 - 80 %       |           |
| Screw Speed           | 20 - 100 rpm    | 20 - 100 rpm    |           |

## Contact Songhan Plastic Technology Co.,Ltd.

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