

## Multibase Multi-Pro® 4005 M Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

Mica Filled, 40% by weight.Features:Rigidity, HighImpact Resistance, GoodForms:PelletsProcessing Methods:Injection

MoldingUses:Automotive ApplicationsInformation provided by Multibase

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Multibase-Multi-Pro-4005-M-Polypropylene.php](http://www.lookpolymers.com/polymer_Multibase-Multi-Pro-4005-M-Polypropylene.php)

| Physical Properties   | Metric       | English       | Comments   |
|-----------------------|--------------|---------------|------------|
| Density               | 1.25 g/cc    | 0.0452 lb/in³ | ASTM D792  |
| Linear Mold Shrinkage | 0.0060 cm/cm | 0.0060 in/in  | ASTM D955  |
| Melt Flow             | 5.0 g/10 min | 5.0 g/10 min  | ASTM D1238 |

| Mechanical Properties   | Metric     | English        | Comments        |
|-------------------------|------------|----------------|-----------------|
| Tensile Strength, Yield | 31.7 MPa   | 4600 psi       | ASTM D638       |
| Elongation at Break     | 3.0 %      | 3.0 %          | ASTM D638       |
| Flexural Modulus        | 3.86 GPa   | 560 ksi        | ASTM D790       |
| Izod Impact, Notched    | 0.267 J/cm | 0.500 ft-lb/in | 73°F; ASTM D256 |

| Thermal Properties                          | Metric  | English | Comments              |
|---------------------------------------------|---------|---------|-----------------------|
| Deflection Temperature at 0.46 MPa (66 psi) | 138 °C  | 280 °F  | Unannealed; ASTM D648 |
| Deflection Temperature at 1.8 MPa (264 psi) | 93.3 °C | 200 °F  | Unannealed; ASTM D648 |

| Processing Properties     | Metric         | English       | Comments |
|---------------------------|----------------|---------------|----------|
| Rear Barrel Temperature   | 216 - 260 °C   | 420 - 500 °F  |          |
| Middle Barrel Temperature | 216 - 260 °C   | 420 - 500 °F  |          |
| Front Barrel Temperature  | 221 - 260 °C   | 430 - 500 °F  |          |
| Nozzle Temperature        | 216 - 249 °C   | 420 - 480 °F  |          |
| Mold Temperature          | 4.44 - 65.6 °C | 40.0 - 150 °F |          |
| Drying Temperature        | 93.3 °C        | 200 °F        |          |
| Dry Time                  | 2 hour         | 2 hour        |          |

| Back Pressure<br>Processing Properties | 0.138 - 0.345 MPa<br>Metric | 20.0 - 50.0 psi<br>English | Comments |
|----------------------------------------|-----------------------------|----------------------------|----------|
| Screw Speed                            | 40 - 100 rpm                | 40 - 100 rpm               |          |

| Descriptive Properties | Value                    | Comments |
|------------------------|--------------------------|----------|
| Clamp Tonnage          | 2-4 tons/in <sup>2</sup> |          |
| Screw L/D Ratio        | 20:1                     |          |

## Contact Songhan Plastic Technology Co.,Ltd.

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