

## SABIC Innovative Plastics LNP Thermocomp MX05038 PP (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polypropylene (PP)

### Material Notes:

Polypropylene compound, containing mineral. Added features include High Impact This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-LNP-Thermocomp-MX05038-PP-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-Thermocomp-MX05038-PP-Europe-Africa-Middle-East.php)

| Physical Properties | Metric    | English                   | Comments |
|---------------------|-----------|---------------------------|----------|
| Density             | 1.09 g/cc | 0.0394 lb/in <sup>3</sup> | ISO 1183 |

| Mechanical Properties        | Metric                                             | English                                             | Comments            |
|------------------------------|----------------------------------------------------|-----------------------------------------------------|---------------------|
| Tensile Strength, Yield      | 16.0 MPa                                           | 2320 psi                                            | 5 mm/min; ISO 527   |
| Elongation at Yield          | 4.3 %                                              | 4.3 %                                               | 5 mm/min; ISO 527   |
| Tensile Modulus              | 1.40 GPa                                           | 203 ksi                                             | 1 mm/min; ISO 527   |
| Flexural Yield Strength      | 28.0 MPa                                           | 4060 psi                                            | 2 mm/min; ISO 178   |
| Flexural Modulus             | 1.50 GPa                                           | 218 ksi                                             | 2 mm/min; ISO 178   |
| Izod Impact, Notched (ISO)   | 8.00 kJ/m <sup>2</sup><br>@Temperature 23.0<br>Â°C | 3.81 ft-lb/in <sup>2</sup><br>@Temperature 73.4 Â°F | 80*10*4; ISO 180/1A |
| Izod Impact, Unnotched (ISO) | 105 kJ/m <sup>2</sup><br>@Temperature 23.0<br>Â°C  | 50.0 ft-lb/in <sup>2</sup><br>@Temperature 73.4 Â°F | 80*10*4; ISO 180/1U |

| Thermal Properties                             | Metric                                           | English                                            | Comments                         |
|------------------------------------------------|--------------------------------------------------|----------------------------------------------------|----------------------------------|
| CTE, linear, Parallel to Flow                  | 109 Âµm/m-Â°C<br>@Temperature 23.0 -<br>60.0 Â°C | 60.6 Âµin/in-Â°F<br>@Temperature 73.4 -<br>140 Â°F | ISO 11359-2                      |
| CTE, linear, Transverse to Flow                | 135 Âµm/m-Â°C<br>@Temperature 23.0 -<br>60.0 Â°C | 75.0 Âµin/in-Â°F<br>@Temperature 73.4 -<br>140 Â°F | ISO 11359-2                      |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 96.0 Â°C                                         | 205 Â°F                                            | Flatw 80*10*4 sp=64mm; ISO 75/Bf |
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 58.0 Â°C                                         | 136 Â°F                                            | Flatw 80*10*4 sp=64mm; ISO 75/Af |

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