

## Omnix® FC-4050 BK 001 (PA\*+PPA)-GF50

Syensqo

| Processing/Physical Characteristics | Value | Unit  | Test Standard |
|-------------------------------------|-------|-------|---------------|
| <b>ASTM Data</b>                    |       |       |               |
| Density, 73°F                       | 1590  | kg/m³ | ASTM D 792    |

| Rheological properties      | Value | Unit | Test Standard   |
|-----------------------------|-------|------|-----------------|
| <b>ISO Data</b>             |       |      |                 |
| Molding shrinkage, parallel | 0.1   | %    | ISO 294-4, 2577 |
| Molding shrinkage, normal   | 0.5   | %    | ISO 294-4, 2577 |

| Mechanical Properties                | Value | Unit  | Test Standard |
|--------------------------------------|-------|-------|---------------|
| <b>ISO Data</b>                      |       |       |               |
| Tensile Modulus                      | 17000 | MPa   | ISO 527       |
| Yield stress                         | 245   | MPa   | ISO 527       |
| Strain at Break                      | 2.4   | %     | ISO 527       |
| Flexural Modulus (23°C)              | 15000 | MPa   | ISO 178       |
| Notched Impact Strength (Izod), 23°C | 14    | kJ/m² | ISO 180/1A    |
| Impact Strength (Izod), 23°C         | 90    | kJ/m² | ISO 180/1U    |

| Thermal Properties             | Value | Unit | Test Standard  |
|--------------------------------|-------|------|----------------|
| <b>ISO Data</b>                |       |      |                |
| Melting Temperature (10°C/min) | 260   | °C   | ISO 11357-1/-3 |

| Processing Recommendation Injection Molding | Value     | Unit | Test Standard |
|---------------------------------------------|-----------|------|---------------|
| Pre-drying - Temperature                    | 80        | °C   | -             |
| Pre-drying - Time                           | 4 - 12    | h    | -             |
| Melt temperature                            | 275 - 290 | °C   | -             |
| Mold temperature                            | 80 - 120  | °C   | -             |
| Zone 1                                      | 250       | °C   | -             |
| Zone 2                                      | 285       | °C   | -             |

### Characteristics

#### Processing

Injection Molding

#### Special Characteristics

Impact modified

#### Delivery form

Pellets, Black

#### Certifications

Food approval, Food Contact (FDA)

### Disclaimer

#### Liability Exclusion

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