

**Polytron® P20N01M**

PP-GLF20

Polyram

| Processing/Physical Characteristics                | 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 |
| <b>Mechanical properties</b>                       |           |                   |                 |
| <b>ISO Data</b>                                    |           |                   |                 |
| Tensile Modulus                                    | 5700      | MPa               | ISO 527         |
| Tensile Strength                                   | 90        | MPa               | ISO 527         |
| Strain at break                                    | 2.5       | %                 | ISO 527         |
| Flexural modulus, 23°C                             | 5300      | MPa               | ISO 178         |
| Flexural strength                                  | 140       | MPa               | ISO 178         |
| Charpy impact strength, +23°C                      | 40        | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy notched impact strength, +23°C              | 15        | kJ/m <sup>2</sup> | ISO 179/1eA     |
| <b>Thermal properties</b>                          |           |                   |                 |
| <b>ISO Data</b>                                    |           |                   |                 |
| Melting temperature, 10°C/min                      | 168       | °C                | ISO 11357-1/-3  |
| Temp. of deflection under load, 1.80 MPa           | 150       | °C                | ISO 75-1/-2     |
| Temp. of deflection under load, 0.45 MPa           | 158       | °C                | ISO 75-1/-2     |
| Burning behav. at thickness h                      | HB        | class             | IEC 60695-11-10 |
| Thickness tested                                   | 3.0       | mm                | -               |
| <b>Other properties</b>                            |           |                   |                 |
| Density  | 1030      | kg/m <sup>3</sup> | ISO 1183        |
| <b>Processing Recommendation Injection Molding</b> |           |                   |                 |
| Pre-drying - Temperature                           | 80        | °C                | -               |
| Pre-drying - Time                                  | 2 - 4     | h                 | -               |
| Mold temperature                                   | 50 - 70   | °C                | -               |
| Zone 1   | 230 - 250 | °C                | -               |
| Zone 2   | 230 - 250 | °C                | -               |
| Zone 3   | 230 - 250 | °C                | -               |

**Characteristics****Processing**

Injection Molding

**Certifications**

RoHS compliant

**Delivery form**

Pellets, Natural Color

**Applications**

Automotive

**Special Characteristics**

Heat stabilized or stable to heat

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa

**Features**

Chemically Coupled Reinforcement, Long fiber reinforced, Low Warpage