

**KEPITAL® TE-21**

POM

Korea Engineering Plastics Co. Ltd.

| Processing/Physical Characteristics                | Value     | Unit              | Test Standard   |
|--|-----------|-------------------|-----------------|
| <b>ISO Data</b>                                    |           |                   |                 |
| Melt flow index, MFI                               | 11        | g/10min           | ISO 1133        |
| Molding shrinkage, parallel                        | 1.9       | %                 | ISO 294-4, 2577 |
| <b>Mechanical properties</b>                       |           |                   |                 |
| <b>ISO Data</b>                                    |           |                   |                 |
| Tensile Strength                                   | 57        | MPa               | ISO 527         |
| Yield strain                                       | 9         | %                 | ISO 527         |
| Strain at break                                    | 40        | %                 | ISO 527         |
| Flexural modulus, 23°C                             | 2150      | MPa               | ISO 178         |
| Charpy notched impact strength, +23°C              | 8         | kJ/m <sup>2</sup> | ISO 179/1eA     |
| <b>Thermal properties</b>                          |           |                   |                 |
| <b>ISO Data</b>                                    |           |                   |                 |
| Melting temperature, 10°C/min                      | 165       | °C                | ISO 11357-1/-3  |
| Temp. of deflection under load, 1.80 MPa           | 84        | °C                | ISO 75-1/-2     |
| Coeff. of linear therm. expansion, parallel        | 130       | E-6/K             | ISO 11359-1/-2  |
| Burning behav. at thickness h                      | HB        | class             | IEC 60695-11-10 |
| <b>Electrical properties</b>                       |           |                   |                 |
| <b>ISO Data</b>                                    |           |                   |                 |
| Surface resistivity                                | >1E15     | Ohm               | IEC 62631-3-2   |
| <b>Other properties</b>                            |           |                   |                 |
| Humidity absorption                                | 0.22      | %                 | Sim. to ISO 62  |
| Density  | 1390      | kg/m <sup>3</sup> | ISO 1183        |
| <b>Processing Recommendation Injection Molding</b> |           |                   |                 |
| Pre-drying - Temperature                           | 80 - 100  | °C                | -               |
| Pre-drying - Time                                  | 3 - 4     | h                 | -               |
| Processing humidity                                | ≤0.1      | %                 | -               |
| Mold temperature                                   | 60 - 80   | °C                | -               |
| Feed temperature                                   | 60 - 80   | °C                | -               |
| Zone 1   | 170 - 180 | °C                | -               |
| Zone 2   | 180 - 190 | °C                | -               |
| Zone 3   | 190 - 200 | °C                | -               |
| Nozzle temperature                                 | 180 - 210 | °C                | -               |
| Back pressure                                      | 2         | MPa               | -               |

**Characteristics****Processing**

Injection Molding

**Special Characteristics**

High impact or impact modified

**Applications**

General Purpose

**Regional Availability**

North America, Europe, Asia Pacific