## Product Description

A medium viscosity grade for general injection molding. It was reinforced glass fiber, and so suitable for parts requiring very high stiffness, fatigue resistance, creep resistance, and heat resistance.

### General

- **Material Status**
  - Commercial: Active

- **Literature**
  - Technical Datasheet - ASTM (English)
  - Technical Datasheet - ISO (English)

### UL Yellow Card

- E120354-220452

### Search for UL Yellow Card

- Korea Engineering Plastics Co., Ltd
- Kepital®

### Availability

- Asia Pacific
- Europe
- North America

### Filler / Reinforcement

- Glass Fiber

### Features

- Fatigue Resistant
- Good Creep Resistance
- High Stiffness
- Medium Heat Resistance
- Medium Viscosity

### RoHS Compliance

- RoHS Compliant

### Forms

- Pellets

### Processing Method

- Injection Molding

### Physical

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value (English)</th>
<th>Nominal Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Gravity</td>
<td>1.50</td>
<td>1.50 g/cm³</td>
<td>ASTM D792</td>
</tr>
<tr>
<td>Melt Mass-Flow Rate (MFR) 190°C/2.16 kg</td>
<td>12 g/10 min</td>
<td>12 g/10 min</td>
<td>ASTM D1238</td>
</tr>
<tr>
<td>Molding Shrinkage - Flow (0.0787 in (2.00 mm))</td>
<td>8.0E-3 in/min</td>
<td>0.80 %</td>
<td>ASTM D955</td>
</tr>
<tr>
<td>Water Absorption Equilibrium, 73°F (23°C), 60% RH</td>
<td>0.20 %</td>
<td>0.20 %</td>
<td>ASTM D570</td>
</tr>
</tbody>
</table>

### Mechanical

<table>
<thead>
<tr>
<th>Property</th>
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<th>Nominal Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength</td>
<td>16100 psi</td>
<td>111 MPa</td>
<td>ASTM D638</td>
</tr>
<tr>
<td>Tensile Elongation</td>
<td>17400 psi</td>
<td>120 MPa</td>
<td>ISO 527-2</td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>777000 psi</td>
<td>5350 MPa</td>
<td>ASTM D790</td>
</tr>
<tr>
<td>Flexural Strength</td>
<td>754000 psi</td>
<td>5200 MPa</td>
<td>ISO 178</td>
</tr>
<tr>
<td>Impact Charpy Notched Impact Strength</td>
<td>3.3 ft·lb/in²</td>
<td>7.0 kJ/m²</td>
<td>ISO 179/1eA</td>
</tr>
<tr>
<td>Impact Notched Izod Impact (0.126 in (3.20 mm))</td>
<td>1.3 ft·lb/in</td>
<td>69 J/m</td>
<td>ASTM D256</td>
</tr>
</tbody>
</table>

### Thermal

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value (English)</th>
<th>Nominal Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed</td>
<td>327 °F</td>
<td>164 °C</td>
<td>ASTM D648</td>
</tr>
<tr>
<td>Peak Melting Temperature</td>
<td>329 °F</td>
<td>165 °C</td>
<td>ASTM D3418</td>
</tr>
</tbody>
</table>

### Electrical

<table>
<thead>
<tr>
<th>Property</th>
<th>Nominal Value (English)</th>
<th>Nominal Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface Resistivity</td>
<td>1.0E+16 ohms</td>
<td>1.0E+16 ohms</td>
<td>ASTM D257</td>
</tr>
</tbody>
</table>
### Electrical

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<tr>
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<th>Nominal Value (SI)</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume Resistivity</td>
<td>$1.0 \times 10^{14}$ ohms·cm</td>
<td>$1.0 \times 10^{14}$ ohms·cm</td>
<td>ASTM D257</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IEC 60093</td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flame Rating (0.0315 in (0.800 mm))</td>
<td>HB</td>
<td>HB</td>
<td>UL 94</td>
</tr>
</tbody>
</table>

**Notes**

1. These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

2. A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

3. Typical properties: these are not to be construed as specifications.
# Where to Buy

**Supplier**

<table>
<thead>
<tr>
<th>Name</th>
<th>Contact Information</th>
</tr>
</thead>
</table>
| Korea Engineering Plastics Co., Ltd | Seoul, South Korea  
Telephone: +82-2-707-6840  
Web: http://www.kepital.com/ |

**Distributor**

<table>
<thead>
<tr>
<th>Name</th>
<th>Contact Information</th>
</tr>
</thead>
</table>
| ALBIS Plastic               | ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.  
Telephone: +49-40-78105-0  
Web: http://www.albis.com/  
**Availability:** Algeria, Belgium, France, Luxembourg, Morocco, Netherlands, Portugal, Spain, Tunisia |
| AMP TUNISIA                 | Telephone: +216-52-27-21-73  
Web: http://www.amp.fr/  
**Availability:** Tunisia |
| Calsak Polymers             | Telephone: 800-743-2595  
Web: http://www.calsakpolymers.com/  
**Availability:** North America |
| Chase Plastic Services, Inc.| Chase Plastics Services is a North American distributor with representatives throughout the region. Please find your rep here:  
http://www.chaseplastics.com/contact/locations  
Telephone: 800-232-4273  
Web: http://www.chaseplastics.com/  
**Availability:** North America |
| ESSE International - OMYA   | ESSE International - OMYA is a Pan European distribution company. Contact ESSE International - OMYA for availability of individual products by country.  
Telephone: +33-1-30-80-56-56  
Web: http://www.omya.com  
**Availability:** Europe, Turkey |
| GAZECHIM PLASTIQUES         | GAZECHIM PLASTIQUES is a Pan European distribution company. Contact GAZECHIM PLASTIQUES for availability of individual products by country.  
Telephone: +33-4-67-49-55-37  
Web: http://www.gazechim.com/  
**Availability:** United Kingdom |
| Polymix                     | Telephone: +33-3-8920-1380  
Web: http://www.polymix.eu/  
**Availability:** France |
| Telko Oy                    | Telko Oy is a Pan European distribution company. Contact Telko Oy for availability of individual products by country.  
Telephone: +358-9-5211  
Web: http://www.telko.com/  
**Availability:** Denmark, Norway, Sweden |