# Ultron® 150G6-WR

Polyether Imide

Asia International Enterprise (Hong Kong) Limited

## Message:

Polyetherimide (Abbr. PEI) is a high performance amorphous engineering polymer offers excellent thermal resistance, broad chemical resistance, inherent flame retardant properties, very good dimensional stability, high strength and stiffness, excellent abrasion resistance, good wave transmittance, outstanding electrical properties. PEI well balances mechanical properties and processability, offering flexibility and efficiency in applications of electronic and electrical industries, mechanical and chemical industries, automotives, aerospace. PEI also used to replace metal parts for traditional and household products.

| General Information | |
|---|---|
| Filler / Reinforcement | Glass Fiber,30% Filler by Weight |
| Additive | PTFE Lubricant |
| Features | Amorphous<br>Flame Retardant<br>Good Abrasion Resistance<br>Good Chemical Resistance<br>Good Dimensional Stability<br>Good Electrical Properties<br>Good Flexibility<br>Good Processability<br>High Heat Resistance<br>High Stiffness<br>High Strength<br>Lubricated |
| Uses | Aerospace Applications<br>Automotive Applications<br>Electrical/Electronic Applications<br>Household Goods<br>Metal Replacement |
| Agency Ratings | EU Food Contact, Unspecified Rating<br>FDA Food Contact, Unspecified Rating |
| Forms | Pellets |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 1.62 | g/cm³ | ISO 1183 |
| Molding Shrinkage | | | ISO 294-4 |
| Across Flow | 0.20 | % | |
| Flow | 0.10 | % | |

| | | | |
|---|---|---|---|
| Water Absorption (Saturation, 23°C) | 0.18 | % | ISO 62 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (M-Scale) | 122 | | ISO 2039-2 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress (Yield) | 120 | MPa | ISO 527-2/1270 |
| Tensile Strain (Break) | 2.0 | % | ISO 527-2/50 |
| Flexural Modulus [1] | 8500 | MPa | ISO 178 |
| Flexural Stress [2] | 175 | MPa | ISO 178 |
| Coefficient of Friction | 0.17 | | ISO 8295 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact Strength | 10 | $kJ/m^2$ | ISO 180 |
| Unnotched Izod Impact Strength | 42 | $kJ/m^2$ | ISO 180 |
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 210 | °C | ISO 75-2/A |
| Vicat Softening Temperature | 220 | °C | ISO 306/B50 |
| CLTE - Flow (-20 to 150°C) | 3.6E-4 | cm/cm/°C | ISO 11359-2 |
| Thermal Conductivity | 0.25 | W/m/K | ISO 8302 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | > 1.0E+16 | ohms·cm | IEC 60093 |
| Electric Strength (in Oil) | 20 | kV/mm | IEC 60243-1 |
| Dielectric Constant (1 MHz) | 3.90 | | IEC 60250 |
| Dissipation Factor (1 MHz) | 5.0E-3 | | IEC 60250 |
| Comparative Tracking Index | 200 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.60 mm) | V-0 | | UL 94 |
| NOTE | | | |
| 1. | 2.0 mm/min | | |
| 2. | 2.0 mm/min | | |



Recommended distributors for this material

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