

Product Texts

Injection Molding, UV Stabilized

ISO 18064 TPC-ET

Arnitel EL150/U is a very low modulus grade with nominal hardness of 20D. Material can be processed by many conventional thermoplastics processing techniques such as injection molding. It is important to note that in a certain periods, clumps can be formed due to excessive storage conditions such as packing type, stacking, extreme temperature. Pl. refer injection molding recommendations

Food contact use - Not Applicable.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|---|-------|------------------------|---------------|
| ISO Data | | | |
| ^[C] Melt volume-flow rate, MVR | 77 | cm ³ /10min | ISO 1133 |
| Temperature | 230 | °C | - |
| Load | 2.16 | kg | - |

[C]: CAMPUS

| Mechanical properties | Value | Unit | Test Standard |
|--|-------|------|---------------|
| ISO Data | | | |
| ^[C] Stress at 10% elongation | 1.4 | MPa | ISO 527 |
| ^[C] Stress at 100% elongation | 3.8 | MPa | ISO 527 |
| ^[C] Stress at break TPE | 13.8 | MPa | ISO 527 |
| ^[C] Strain at break TPE | >300 | % | ISO 527 |
| ^[C] Shore A hardness | 80 | - | ISO 7619-1 |
| ^[C] Shore D hardness | 18 | - | ISO 7619-1 |

[C]: CAMPUS

| Thermal properties | Value | Unit | Test Standard |
|--|-------|------|----------------|
| ISO Data | | | |
| ^[C] Melting temperature, 10°C/min | 165 | °C | ISO 11357-1/-3 |

[C]: CAMPUS

| Other properties | Value | Unit | Test Standard |
|------------------------------------|-------|-------------------|----------------|
| ^[C] Humidity absorption | 0.12 | % | Sim. to ISO 62 |
| ^[C] Density | 1060 | kg/m ³ | ISO 1183 |

[C]: CAMPUS

| Material specific properties | Value | Unit | Test Standard |
|---------------------------------|-------|--------------------|---------------------|
| ISO Data | | | |
| ^[C] Viscosity number | 3.32 | cm ³ /g | ISO 307, 1157, 1628 |

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Special Characteristics

U.V. stabilized or stable to weather

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Other text information

Injection molding

[Injection Molding Recommendations](#)

[Steel recommendations for molds screws and barrels](#)

[Trouble shooting guideline for injection molding](#)