

Arnitel[®] PL650

TPC-ET

Injection Molding

Print Date: 2024-09-17

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|--------------|------------------------|--------------------|
| RHEOLOGICAL PROPERTIES | | | |
| | VALUE | | |
| Melt volume-flow rate | 26 | cm ³ /10min | ISO 1133 |
| Temperature | 230 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| Molding shrinkage [normal] | 1.7 | % | Sim. to ISO 294-4 |
| MECHANICAL PROPERTIES | | | |
| | VALUE | | |
| Shore D Hardness (3s) | 62 | — | ISO 868 |
| Tensile modulus | 430 | MPa | ISO 527-1/-2 |
| Yield stress | 25 | MPa | ISO 527-1/-2 |
| Yield strain | 24 | % | ISO 527-1/-2 |
| Stress at break | 35 | MPa | ISO 527-1/-2 |
| Nominal strain at break | 365 | % | ISO 527-1/-2 |
| Stress at 5% strain | 17.1 | MPa | ISO 527-1/-2 |
| Stress at 10% strain | 22.1 | MPa | ISO 527-1/-2 |
| Stress at 50% strain | 22.9 | MPa | ISO 527-1/-2 |
| Stress at 100% strain | 22.1 | MPa | ISO 527-1/-2 |
| Charpy notched impact strength (+23°C) | 23 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 7 | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | 21 | kJ/m ² | ISO 180/1A |
| Izod notched impact strength (-20°C) | 5 | kJ/m ² | ISO 180/1A |
| Tear strength | 150 | kN/m | ISO 34-1; Method B |

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|---------------------------------------|---------------------|-------------------|--------------------|
| THERMAL PROPERTIES | | | |
| | <i>VALUE</i> | | |
| Melting temperature (10°C/min) | 221 | °C | ISO 11357-1/-3 |
| Burning Behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | IEC 60695-11-10 |
| OTHER PROPERTIES | | | |
| | <i>VALUE</i> | | |
| Density | 1250 | kg/m ³ | ISO 1183 |

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