

# Arnitel<sup>®</sup> EL700

## TPC-ET

Injection Molding

| PROPERTIES                                   | TYPICAL DATA | UNIT    | TEST METHOD       |
|----------------------------------------------|--------------|---------|-------------------|
| <b>RHEOLOGICAL PROPERTIES</b>                | <b>VALUE</b> |         |                   |
| Melt flow index MFI                          | 28           | g/10min | ISO 1133          |
| MFI test load                                | 2.16         | kg      | ISO 1133          |
| MFI test temperature                         | 230          | °C      | ISO 1133          |
| Molding shrinkage [parallel]                 | 1.75         | %       | Sim. to ISO 294-4 |
| Molding shrinkage [normal]                   | 2            | %       | Sim. to ISO 294-4 |
| <b>MECHANICAL PROPERTIES</b>                 | <b>VALUE</b> |         |                   |
| Shore D Hardness (3s)                        | 65           | —       | ISO 868           |
| Tensile modulus                              | 550          | MPa     | ISO 527-1/-2      |
| Yield stress                                 | 30           | MPa     | ISO 527-1/-2      |
| Stress at break                              | 30.8         | MPa     | ISO 527-1/-2      |
| Nominal strain at break                      | 500          | %       | ISO 527-1/-2      |
| Stress at 5% strain                          | 20           | MPa     | ISO 527-1/-2      |
| Stress at 10% strain                         | 26           | MPa     | ISO 527-1/-2      |
| Stress at 50% strain                         | 23           | MPa     | ISO 527-1/-2      |
| Charpy notched impact strength (+23°C)       | 16           | kJ/m²   | ISO 179/1eA       |
| <b>THERMAL PROPERTIES</b>                    | <b>VALUE</b> |         |                   |
| Melting temperature (10°C/min)               | 216          | °C      | ISO 11357-1/-3    |
| Temp. of deflection under load (1.80 MPa)    | 52           | °C      | ISO 75-1/-2       |
| Coeff. of linear therm. expansion (parallel) | 1.75         | E-4/°C  | ISO 11359-1/-2    |
| Coeff. of linear therm. expansion (normal)   | 1.75         | E-4/°C  | ISO 11359-1/-2    |

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| OTHER PROPERTIES    | VALUE        |       |                |
| Density             | 1260         | kg/m³ | ISO 1183       |
| Water absorption    | 0.6          | %     | Sim. to ISO 62 |
| Humidity absorption | 0.18         | %     | Sim. to ISO 62 |