

# Arnitel® PL420-H

## TPC-ET

Injection Molding, Heat Stabilized

| Properties                             | Typical Data | Unit                   | Test Method       |
|----------------------------------------|--------------|------------------------|-------------------|
| <b>Rheological properties</b>          |              |                        |                   |
|                                        | Value        |                        |                   |
| Melt volume-flow rate                  | 23           | cm <sup>3</sup> /10min | ISO 1133          |
| Temperature                            | 230          | °C                     | ISO 1133          |
| Load                                   | 2.16         | kg                     | ISO 1133          |
| Molding shrinkage [parallel]           | 1.6          | %                      | Sim. to ISO 294-4 |
| Molding shrinkage [normal]             | 1.75         | %                      | Sim. to ISO 294-4 |
| <b>Mechanical properties</b>           |              |                        |                   |
|                                        | Value        |                        |                   |
| Shore D Hardness (3s)                  | 38           | -                      | ISO 868           |
| Tensile modulus                        | 75           | MPa                    | ISO 527-1/-2      |
| Stress at break                        | 15           | MPa                    | ISO 527-1/-2      |
| Nominal strain at break                | 275          | %                      | ISO 527-1/-2      |
| Stress at 5% strain                    | 3.5          | MPa                    | ISO 527-1/-2      |
| Stress at 10% strain                   | 6            | MPa                    | ISO 527-1/-2      |
| Stress at 50% strain                   | 9.8          | MPa                    | ISO 527-1/-2      |
| Stress at 100% strain                  | 11           | MPa                    | ISO 527-1/-2      |
| Charpy notched impact strength (+23°C) | N            | kJ/m <sup>2</sup>      | ISO 179/1eA       |
| Charpy notched impact strength (-30°C) | N            | kJ/m <sup>2</sup>      | ISO 179/1eA       |
| Izod notched impact strength (+23°C)   | N            | kJ/m <sup>2</sup>      | ISO 180/1A        |
| Izod notched impact strength (-20°C)   | N            | kJ/m <sup>2</sup>      | ISO 180/1A        |
| Izod notched impact strength (-30°C)   | N            | kJ/m <sup>2</sup>      | ISO 180/1A        |
| Flexural modulus                       | 80           | MPa                    | ISO 178           |

**Mechanical properties (die cutting)**

Value



## Property Data

# Arnitel<sup>®</sup> PL420-H

| Properties                     | Typical Data | Unit              | Test Method        |
|--------------------------------|--------------|-------------------|--------------------|
| Tear strength (normal)         | 105          | kN/m              | ISO 34-1; Method B |
| Tear strength (parallel)       | 97           | kN/m              | ISO 34-1; Method B |
| Thermal properties             |              |                   |                    |
|                                | Value        |                   |                    |
| Melting temperature (10°C/min) | 220          | °C                | ISO 11357-1/-3     |
| Electrical properties          |              |                   |                    |
|                                | Value        |                   |                    |
| Volume resistivity             | >1E13        | Ohm*m             | IEC 62631-3-1      |
| Other properties               |              |                   |                    |
|                                | Value        |                   |                    |
| Density                        | 1180         | kg/m <sup>3</sup> | ISO 1183           |

