

## Arnitel® EE7805 (L-X07805)

## TPC-ET

Injection Molding

| Properties                                        | Typical Data | Unit                   | Test Method       |
|---------------------------------------------------|--------------|------------------------|-------------------|
| <b>Rheological properties</b>                     |              |                        |                   |
|                                                   | Value        |                        |                   |
| Melt volume-flow rate                             | 73           | cm <sup>3</sup> /10min | ISO 1133          |
| Temperature                                       | 230          | °C                     | ISO 1133          |
| Load                                              | 2.16         | kg                     | ISO 1133          |
| Molding shrinkage [parallel]                      | 1.4          | %                      | Sim. to ISO 294-4 |
| Molding shrinkage [normal]                        | 1.4          | %                      | Sim. to ISO 294-4 |
| <b>Mechanical properties</b>                      |              |                        |                   |
|                                                   | Value        |                        |                   |
| Shore A Hardness (15s)                            | 75           | -                      | ISO 868           |
| Tensile modulus                                   | 15.5         | MPa                    | ISO 527-1/-2      |
| Stress at break                                   | 15.1         | MPa                    | ISO 527-1/-2      |
| Nominal strain at break                           | 1100         | %                      | ISO 527-1/-2      |
| Stress at 5% strain                               | 1            | MPa                    | ISO 527-1/-2      |
| Stress at 10% strain                              | 1.5          | MPa                    | ISO 527-1/-2      |
| Stress at 50% strain                              | 3.2          | MPa                    | ISO 527-1/-2      |
| Stress at 100% strain                             | 4.2          | MPa                    | ISO 527-1/-2      |
| Depth of wear (Abrasion)                          | 0.039        | mm                     | JIS K 7218        |
| Dynamic coeff. of Friction (0.1MPa - 10cm/s - 5h) | 2.72         | -                      | JIS K 7218        |
| <b>Thermal properties</b>                         |              |                        |                   |
|                                                   | Value        |                        |                   |
| Melting temperature (10°C/min)                    | 170          | °C                     | ISO 11357-1/-3    |
| Vicat softening temperature (10N 50°C/h)          | 59           | °C                     | ASTM D1525        |



Property Data (Provisional)

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| Properties                          | Typical Data | Unit              | Test Method |
|-------------------------------------|--------------|-------------------|-------------|
| Density                             | 1060         | kg/m <sup>3</sup> | ISO 1183    |
| Mechanical properties (die cutting) |              | Value             |             |
| Tear strength (normal)              | 71           | MPa               | ISO 34      |
| Tear strength (parallel)            | 83           | MPa               | ISO 34      |

