

Arnitel[®] Care L225E

TPC-ET

25 Shore D, Low Viscosity, Medical grade, Food Contact Quality

Print Date: 2026-04-09

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|-------------------------------|--------------|------------------------|-------------------|
| RHEOLOGICAL PROPERTIES | | | |
| | VALUE | | |
| Melt volume-flow rate (MVR) | 48 | cm ³ /10min | ISO 1133 |
| Temperature | 230 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| Molding shrinkage [parallel] | 1 | % | Sim. to ISO 294-4 |
| Molding shrinkage [normal] | 1 | % | Sim. to ISO 294-4 |

| | | | |
|--|--------------|-------------------|--------------|
| MECHANICAL PROPERTIES | | | |
| | VALUE | | |
| Shore D Hardness (3s) | 25 | — | ISO 868 |
| Shore A Hardness (3s) | 85 | — | ISO 868 |
| Tensile modulus | 25 | MPa | ISO 527-1/-2 |
| Stress at break | 15 | MPa | ISO 527-1/-2 |
| Nominal strain at break | 900 | % | ISO 527-1/-2 |
| Stress at 5% strain | 1.3 | MPa | ISO 527-1/-2 |
| Stress at 10% strain | 2.1 | MPa | ISO 527-1/-2 |
| Stress at 50% strain | 4.5 | MPa | ISO 527-1/-2 |
| Stress at 100% strain | 5.1 | MPa | ISO 527-1/-2 |
| Charpy notched impact strength (+23°C) | N | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | N | kJ/m ² | ISO 179/1eA |
| Izod notched impact strength (+23°C) | N | kJ/m ² | ISO 180/1A |
| Izod notched impact strength (-20°C) | N | kJ/m ² | ISO 180/1A |
| Flexural modulus | 20 | MPa | ISO 178 |

THERMAL PROPERTIES

VALUE

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|--|---------------------|-------------|--------------------|
| Melting temperature (10°C/min) | 180 | °C | ISO 11357-1/-3 |
| Coeff. of linear therm. expansion (parallel) | 2.2 | E-4/°C | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion (normal) | 2.2 | E-4/°C | ISO 11359-1/-2 |
| Burning Behav. at 1.5 mm nom. thickn. | HB | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | IEC 60695-11-10 |

ELECTRICAL PROPERTIES

VALUE

| | | | |
|--------------------|------|-------|---------------|
| Volume resistivity | 5E12 | Ohm*m | IEC 62631-3-1 |
|--------------------|------|-------|---------------|

OTHER PROPERTIES

VALUE

| | | | |
|------------------|------|-------------------|----------------|
| Density | 1080 | kg/m ³ | ISO 1183 |
| Apparent density | 645 | kg/m ³ | ISO 60 |
| Water absorption | 0.8 | % | Sim. to ISO 62 |

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