

Arnitel[®] PB420

TPC-ET

Blow Molding Grade

Print Date: 2024-03-27

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--------------------------------------------|--------------|------------------------|--------------|
| RHEOLOGICAL PROPERTIES | | | |
| | VALUE | | |
| Melt volume-flow rate | 10 | cm ³ /10min | ISO 1133 |
| Temperature | 230 | °C | ISO 1133 |
| Load | 10 | kg | ISO 1133 |
| MECHANICAL PROPERTIES | | | |
| | VALUE | | |
| Shore D Hardness (3s) | 38 | – | ISO 868 |
| Tensile modulus | 70 | MPa | ISO 527-1/-2 |
| Stress at break | 19 | MPa | ISO 527-1/-2 |
| Nominal strain at break | 170 | % | ISO 527-1/-2 |
| Stress at 5% strain | 3.7 | MPa | ISO 527-1/-2 |
| Stress at 10% strain | 6.2 | MPa | ISO 527-1/-2 |
| Stress at 50% strain | 12.2 | MPa | ISO 527-1/-2 |
| Stress at 100% strain | 16 | 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 (-30°C) | N | kJ/m ² | ISO 180/1A |
| MECHANICAL PROPERTIES (DIE CUTTING) | | | |
| | VALUE | | |
| Stress at break (normal) | 28 | MPa | ISO 527-1/-2 |
| Stress at 5% strain (normal) | 3.7 | MPa | ISO 527-1/-2 |
| Stress at 10% strain (normal) | 5.9 | MPa | ISO 527-1/-2 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|------------------------------------------|---------------------|-------------|--------------------|
| Stress at 50% strain (normal) | 9.3 | MPa | ISO 527-1/-2 |
| Stress at 100% strain (normal) | 10.2 | MPa | ISO 527-1/-2 |
| Strain at break (normal) | 740 | % | ISO 527-1/-2 |
| Stress at 10% strain (parallel) | 5.5 | MPa | ISO 527-1/-2 |
| Stress at 10% strain (parallel) (+100°C) | 2.9 | MPa | ISO 527-1/-2 |
| Tear strength (normal) | 107 | kN/m | ISO 34-1; Method B |
| Tear strength (parallel) | 106 | kN/m | ISO 34-1; Method B |

| <i>THERMAL PROPERTIES</i> | <i>VALUE</i> | | |
|-------------------------------------------|--------------|----|----------------|
| Melting temperature (10°C/min) | 210 | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (0.45 MPa) | 65 | °C | ISO 75-1/-2 |

| <i>OTHER PROPERTIES</i> | <i>VALUE</i> | | |
|-------------------------|--------------|-------------------|----------|
| Density | 1180 | kg/m ³ | ISO 1183 |

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