

# Arnitel<sup>®</sup> EB464

## TPC-ET

Blow Molding Grade

Print Date: 2025-11-16

| PROPERTIES                             | TYPICAL DATA | UNIT                   | TEST METHOD        |
|--|--------------|------------------------|--------------------|
| <b>RHEOLOGICAL PROPERTIES</b>          |              | VALUE                  |                    |
| Melt volume-flow rate                  | 8            | cm <sup>3</sup> /10min | ISO 1133           |
| Temperature                            | 230          | °C                     | ISO 1133           |
| Load                                   | 10           | kg                     | ISO 1133           |
| Molding shrinkage [parallel]           | 1.5          | %                      | Sim. to ISO 294-4  |
| Molding shrinkage [normal]             | 2            | %                      | Sim. to ISO 294-4  |
| <b>MECHANICAL PROPERTIES</b>           |              | VALUE                  |                    |
| Shore D Hardness (3s)                  | 39           | —                      | ISO 868            |
| Shore D Hardness (15s)                 | 39           | —                      | ISO 868            |
| Tensile modulus                        | 67           | MPa                    | ISO 527-1/-2       |
| Stress at break                        | 21.5         | MPa                    | ISO 527-1/-2       |
| Nominal strain at break                | 300          | %                      | ISO 527-1/-2       |
| Stress at 5% strain                    | 3.4          | MPa                    | ISO 527-1/-2       |
| Stress at 10% strain                   | 6            | MPa                    | ISO 527-1/-2       |
| Stress at 50% strain                   | 11           | MPa                    | ISO 527-1/-2       |
| Stress at 100% strain                  | 13.9         | 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         |
| Tear strength                          | 95           | kN/m                   | ISO 34-1; Method B |

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| PROPERTIES                               | TYPICAL DATA | UNIT  | TEST METHOD        |
|--|--------------|-------|--------------------|
| MECHANICAL PROPERTIES (DIE CUTTING)      | VALUE        |       |                    |
| Stress at break (normal)                 | 32           | MPa   | ISO 527-1/-2       |
| Stress at 5% strain (normal)             | 3.4          | MPa   | ISO 527-1/-2       |
| Stress at 10% strain (normal)            | 5.7          | MPa   | ISO 527-1/-2       |
| Stress at 50% strain (normal)            | 8.5          | MPa   | ISO 527-1/-2       |
| Stress at 100% strain (normal)           | 9            | MPa   | ISO 527-1/-2       |
| Strain at break (normal)                 | 950          | %     | ISO 527-1/-2       |
| Stress at 10% strain (parallel)          | 5            | MPa   | ISO 527-1/-2       |
| Stress at 10% strain (parallel) (-40°C)  | 12.5         | MPa   | ISO 527-1/-2       |
| Stress at 10% strain (parallel) (+100°C) | 2.6          | MPa   | ISO 527-1/-2       |
| Tear strength (normal)                   | 106          | kN/m  | ISO 34-1; Method B |
| Tear strength (parallel)                 | 95           | kN/m  | ISO 34-1; Method B |
| THERMAL PROPERTIES                       | VALUE        |       |                    |
| Melting temperature (10°C/min)           | 213          | °C    | ISO 11357-1/-3     |
| Vicat softening temperature (50°C/h 10N) | 150          | °C    | ISO 306            |
| OTHER PROPERTIES                         | VALUE        |       |                    |
| Density                                  | 1150         | kg/m³ | ISO 1183           |
| Water absorption                         | 0.7          | %     | Sim. to ISO 62     |
| Humidity absorption                      | 0.3          | %     | Sim. to ISO 62     |

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