

# Arnitel<sup>®</sup> EM400-B

## TPC-ET

Injection Molding, Molding Release, Food Contact Quality

| PROPERTIES                             | TYPICAL DATA | UNIT                   | TEST METHOD    |
|----------------------------------------|--------------|------------------------|----------------|
| <b>RHEOLOGICAL PROPERTIES</b>          | <b>VALUE</b> |                        |                |
| Melt volume-flow rate                  | 34           | cm <sup>3</sup> /10min | ISO 1133       |
| Temperature                            | 230          | °C                     | ISO 1133       |
| Load                                   | 2.16         | kg                     | ISO 1133       |
| <b>MECHANICAL PROPERTIES</b>           | <b>VALUE</b> |                        |                |
| Shore D Hardness (3s)                  | 30           | —                      | ISO 868        |
| Tensile modulus                        | 40           | MPa                    | ISO 527-1/-2   |
| Stress at break                        | 19           | MPa                    | ISO 527-1/-2   |
| Nominal strain at break                | 800          | %                      | ISO 527-1/-2   |
| Stress at 5% strain                    | 2            | MPa                    | ISO 527-1/-2   |
| Stress at 10% strain                   | 3.4          | MPa                    | ISO 527-1/-2   |
| Stress at 50% strain                   | 6.2          | MPa                    | ISO 527-1/-2   |
| Stress at 100% strain                  | 7            | 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     |
| <b>THERMAL PROPERTIES</b>              | <b>VALUE</b> |                        |                |
| Melting temperature (10°C/min)         | 195          | °C                     | ISO 11357-1/-3 |
| <b>OTHER PROPERTIES</b>                | <b>VALUE</b> |                        |                |
| Density                                | 1100         | kg/m <sup>3</sup>      | ISO 1183       |

