# Arnite® A04 900

PET — DSM Engineering Plastics

## Product Texts

Medium Viscosity, Nucleated

ISO 1043 PET

Arnite website

| Mechanical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Tensile Modulus | 2800 | MPa | ISO 527-1/-2 |
| Yield stress | 80 | MPa | ISO 527-1/-2 |
| Yield strain | 4 | % | ISO 527-1/-2 |
| Nominal strain at break | 12 | % | ISO 527-1/-2 |
| Charpy impact strength (+23°C) | N | kJ/m² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 3 | kJ/m² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Melting temperature (10°C/min) | 255 | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 80 | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 115 | °C | ISO 75-1/-2 |
| Coeff. of linear therm. expansion, parallel | 70 | E-6/K | ISO 11359-1/-2 |
| Coeff. of linear therm. expansion, normal | 70 | E-6/K | 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 |
| UL recognition | UL | - | - |
| Burning behav. at thickness h | HB | class | IEC 60695-11-10 |
| Thickness tested | 0.8 | mm | IEC 60695-11-10 |
| UL recognition | UL | - | - |

| Electrical properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Relative permittivity, 100Hz | 3.3 | - | IEC 60250 |
| Relative permittivity, 1MHz | 3.2 | - | IEC 60250 |
| Dissipation factor, 100Hz | 20 | E-4 | IEC 60250 |
| Dissipation factor, 1MHz | 21 | E-4 | IEC 60250 |
| Volume resistivity | >1E13 | Ohm*m | IEC 60093 |

| Other properties | Value | Unit | Test Standard |
|---|---|---|---|
| **ISO Data** | | | |
| Water absorption | 0.5 | % | Sim. to ISO 62 |
| Humidity absorption | 0.2 | % | Sim. to ISO 62 |
| Density | 1370 | kg/m³ | ISO 1183 |

## Characteristics

**Processing**
Injection Molding

**Additives**
Release agent

**Delivery form**
Pellets

## Other text information

**Injection Molding**
Injection Molding Recommendations