

# Arnite® TZ4 254 S

## (PBT+PET)-(GF+MD)25 FR(17)

Glass/Mineral Reinforced, Flame Retardant

| Properties                                   | Typical Data | Unit              | Test Method     |
|----------------------------------------------|--------------|-------------------|-----------------|
| <b>Mechanical properties</b>                 |              |                   |                 |
|                                              | Value        |                   |                 |
| Tensile modulus                              | 8000         | MPa               | ISO 527-1/-2    |
| Stress at break                              | 90           | MPa               | ISO 527-1/-2    |
| Strain at break                              | 1.8          | %                 | ISO 527-1/-2    |
| Charpy impact strength (+23°C)               | 35           | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy impact strength (-30°C)               | 35           | kJ/m <sup>2</sup> | ISO 179/1eU     |
| Charpy notched impact strength (+23°C)       | 4            | kJ/m <sup>2</sup> | ISO 179/1eA     |
| Charpy notched impact strength (-30°C)       | 4            | kJ/m <sup>2</sup> | ISO 179/1eA     |
| <b>Thermal properties</b>                    |              |                   |                 |
|                                              | Value        |                   |                 |
| Melting temperature (10°C/min)               | 225          | °C                | ISO 11357-1/-3  |
| Temp. of deflection under load (1.80 MPa)    | 175          | °C                | ISO 75-1/-2     |
| Temp. of deflection under load (0.45 MPa)    | 210          | °C                | ISO 75-1/-2     |
| Coeff. of linear therm. expansion (parallel) | 0.4          | E-4/°C            | ISO 11359-1/-2  |
| Coeff. of linear therm. expansion (normal)   | 0.8          | E-4/°C            | ISO 11359-1/-2  |
| Burning Behav. at 1.5 mm nom. thickn.        | V-0          | class             | IEC 60695-11-10 |
| Thickness tested                             | 1.5          | mm                | IEC 60695-11-10 |
| <b>Electrical properties</b>                 |              |                   |                 |
|                                              | Value        |                   |                 |
| Relative permittivity (100Hz)                | 3.9          | -                 | IEC 60250       |
| Relative permittivity (1 MHz)                | 3.7          | -                 | IEC 60250       |
| Dissipation factor (100 Hz)                  | 20           | E-4               | IEC 60250       |
| Dissipation factor (1 MHz)                   | 150          | E-4               | IEC 60250       |
| Volume resistivity                           | >1E13        | Ohm*m             | IEC 60093       |



## Property Data

# Arnite<sup>®</sup> TZ4 254 S

| Properties                 | Typical Data | Unit              | Test Method    |
|----------------------------|--------------|-------------------|----------------|
| Electric strength          | 27           | kV/mm             | IEC 60243-1    |
| Comparative tracking index | 250          | V                 | IEC 60112      |
| Other properties           | Value        |                   |                |
| Water absorption           | 0.3          | %                 | Sim. to ISO 62 |
| Humidity absorption        | 0.15         | %                 | Sim. to ISO 62 |
| Density                    | 1600         | kg/m <sup>3</sup> | ISO 1183       |

