

Arnite[®] TV4 241 SN

PBT-GF20 FR(17)

20% Glass Reinforced, Flame Retardant

Print Date: 2024-10-15

| PROPERTIES | TYPICAL DATA | UNIT | TEST METHOD |
|--|--------------|------------------------|-----------------|
| RHEOLOGICAL PROPERTIES | | | |
| | VALUE | | |
| Melt volume-flow rate | 19 | cm ³ /10min | ISO 1133 |
| Temperature | 250 | °C | ISO 1133 |
| Load | 2.16 | kg | ISO 1133 |
| MECHANICAL PROPERTIES | | | |
| | VALUE | | |
| Tensile modulus | 8200 | MPa | ISO 527-1/-2 |
| Stress at break | 110 | MPa | ISO 527-1/-2 |
| Strain at break | 2.5 | % | ISO 527-1/-2 |
| Flexural modulus | 7700 | MPa | ISO 178 |
| Flexural strength | 165 | MPa | ISO 178 |
| Charpy impact strength (+23°C) | 50 | kJ/m ² | ISO 179/1eU |
| Charpy impact strength (-30°C) | 50 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength (+23°C) | 7 | kJ/m ² | ISO 179/1eA |
| Charpy notched impact strength (-30°C) | 6 | kJ/m ² | ISO 179/1eA |
| THERMAL PROPERTIES | | | |
| | VALUE | | |
| Melting temperature (10°C/min) | 225 | °C | ISO 11357-1/-3 |
| Temp. of deflection under load (1.80 MPa) | 210 | °C | ISO 75-1/-2 |
| Temp. of deflection under load (0.45 MPa) | 220 | °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 0.75 mm nom. thickn. | V-2 | class | IEC 60695-11-10 |
| Thickness tested | 0.75 | mm | IEC 60695-11-10 |

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Property Data

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| <i>PROPERTIES</i> | <i>TYPICAL DATA</i> | <i>UNIT</i> | <i>TEST METHOD</i> |
|---------------------------------------|---------------------|-------------|--------------------|
| Burning Behav. at 1.5 mm nom. thickn. | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 1.5 | mm | IEC 60695-11-10 |
| Burning Behav. at 3.0 mm nom. thickn. | V-0 | class | IEC 60695-11-10 |
| Thickness tested | 3 | mm | IEC 60695-11-10 |

ELECTRICAL PROPERTIES

VALUE

| | | | |
|----------------------------------|-------|-------|---------------|
| Relative permittivity (100Hz) | 3.2 | – | IEC 62631-2-1 |
| Relative permittivity (1 MHz) | 3.2 | – | IEC 62631-2-1 |
| Dissipation factor (100 Hz) | 10 | E-4 | IEC 62631-2-1 |
| Dissipation factor (1 MHz) | 140 | E-4 | IEC 62631-2-1 |
| Volume resistivity | >1E13 | Ohm*m | IEC 62631-3-1 |
| Comparative tracking index | 225 | V | IEC 60112 |
| Comparative tracking index (PLC) | 3 | class | UL 746A |

OTHER PROPERTIES

VALUE

| | | | |
|---------------------|------|-------------------|----------------|
| Water absorption | 0.4 | % | Sim. to ISO 62 |
| Humidity absorption | 0.2 | % | Sim. to ISO 62 |
| Density | 1590 | kg/m ³ | ISO 1183 |

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