

Arnite® AV2 370 /B

35% Glass Reinforced, Brake Booster
Body Valves

General Information

Arnite® (PBT, PET and blends) are high-performance engineering plastics that combine high strength and rigidity with excellent processing characteristics. As a result, Arnite® A (PET) and Arnite® T (PBT) are well suited for a broad range of automotive, electrical & electronic and consumer goods applications.

A wide portfolio of Arnite® is available including unreinforced, reinforced and flame retardant grades.

Special features

Contains release agent

Certificates

[FMVSS \(Natural\)](#)

[ISO Certificates](#)

[Quality Statement](#)

[Safety Data Sheet](#)

Downloads

[Property Data \(PDS\)](#)

[Chemical Resistance Data](#)

[Injection Molding Recommendation](#)

More... (<https://plasticsfinder.com/en/datasheet/Arnite%C2%AE%20AV2%20370%20B/5OX9a#>)

Regulatory Affairs

<u>Absence Declaration Red Phosphorus</u>	2016-05-30
<u>BNST Declaration</u>	2016-05-30
<u>Conflict Mineral Declaration</u>	2018-05-16
More... (https://plasticsfinder.com/en/datasheet/Arnite%C2%AE%20AV2%20370%20B/5OX9a#)	

Processing technology

Injection Molding

Design challenge

Narrow Tolerances

Properties (<https://plasticsfinder.com/en/datasheet/Arnite%C2%AE%20AV2%20370%20B/5OX9a#properties>)

Chemical Resistance (<https://plasticsfinder.com/en/datasheet/Arnite%C2%AE%20AV2%20370%20B/5OX9a#page-chemres>)

Mechanical properties

Tensile modulus	12600 MPa
Stress at break	185 MPa
Strain at break	2.5 %
Charpy impact strength (+23°C)	70 kJ/m ²
Charpy impact strength (-30°C)	50 kJ/m ²
Charpy notched impact strength (+23°C)	9.5 kJ/m ²
Charpy notched impact strength (-30°C)	9.5 kJ/m ²

Thermal properties

Melting temperature (10°C/min)	255 °C
Temp. of deflection under load (1.80 MPa)	235 °C
Temp. of deflection under load (0.45 MPa)	250 °C
Coeff. of linear therm. expansion (parallel)	0.25 E-4/°C
Coeff. of linear therm. expansion (normal)	0.4 E-4/°C

Burning Behav. at 1.5 mm nom. thickn. HB class

Thickness tested 1.5 mm

UL recognition Yes -

Burning Behav. at thickness h HB class

Thickness tested 0.75 mm

UL recognition Yes -

Electrical properties

Relative permittivity (100Hz) 3.7 -

Relative permittivity (1 MHz) 3.5 -

Dissipation factor (100 Hz) 30 E-4

Dissipation factor (1 MHz) 130 E-4

Volume resistivity >1E13 Ohm*m

Electric strength 33 kV/mm

Comparative tracking index 250 V

Other properties

Water absorption 0.45 %

Humidity absorption 0.18 %

Density 1630 kg/m³

Rheological calculation properties

Density of melt 1350 kg/m³

Thermal conductivity of melt 0.195 W/(m K)

Spec. heat capacity melt 1670 J/(kg K)

Eff. thermal diffusivity 8.67E-8 m²/s

Diagrams







