

Arnite[®] AV2 370 /B

PET–GF35

35% Glass Reinforced, Brake Booster Body Valves

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MECHANICAL PROPERTIES			
	VALUE		
Tensile modulus	12600	MPa	ISO 527-1/-2
Stress at break	185	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	70	kJ/m ²	ISO 179/1eU
Charpy impact strength (–30°C)	50	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9.5	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (–30°C)	9.5	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
	VALUE		
Melting temperature (10°C/min)	255	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	235	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	250	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.25	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.4	E-4/°C	ISO 11359-1/-2
ELECTRICAL PROPERTIES			
	VALUE		
Relative permittivity (100Hz)	3.7	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.5	–	IEC 62631-2-1
Dissipation factor (100 Hz)	30	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	130	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	33	kV/mm	IEC 60243-1
Comparative tracking index	250	V	IEC 60112

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
OTHER PROPERTIES	VALUE		
Water absorption	0.45	%	Sim. to ISO 62
Humidity absorption	0.18	%	Sim. to ISO 62
Density	1630	kg/m³	ISO 1183

Viscosity–shear rate

