

# Arnite<sup>®</sup> AV2 390

## PET-GF50

50% Glass Reinforced

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Properties	Typical Data	Unit	Test Method
<b>Rheological properties</b>			
Molding shrinkage [normal]	0.8	%	Sim. to ISO 294-4
Molding shrinkage [parallel]	0.2	%	Sim. to ISO 294-4
<b>Mechanical properties</b>			
Tensile modulus	19000	MPa	ISO 527-1/-2
Stress at break	210	MPa	ISO 527-1/-2
Strain at break	2	%	ISO 527-1/-2
Charpy impact strength (+23°C)	55	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	55	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	14	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	14	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
Melting temperature (10°C/min)	255	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	240	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	252	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.35	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.47	mm	IEC 60695-11-10
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.81	mm	IEC 60695-11-10

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Properties	Typical Data	Unit	Test Method
<b>Electrical properties</b>			
Relative permittivity (100Hz)	3.8	-	IEC 60250
Relative permittivity (1 MHz)	3.5	-	IEC 60250
Dissipation factor (100 Hz)	20	E-4	IEC 60250
Dissipation factor (1 MHz)	110	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Comparative tracking index	250	-	IEC 60112

**Other properties**

Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1780	kg/m <sup>3</sup>	ISO 1183

**Viscosity-shear rate**