

# Arnite® AV2 375 XT-HR

## PET-GF35

35% Glass Reinforced, Hydrolysis resistant

Print Date: 2018-10-03

Properties	Typical Data	Unit	Test Method
<b>Rheological properties</b>			
	Value		
Molding shrinkage [normal]	0.9	%	Sim. to ISO 294-4
Molding shrinkage [parallel]	0.45	%	Sim. to ISO 294-4
<b>Mechanical properties</b>			
	Value		
Tensile modulus	12800	MPa	ISO 527-1/-2
Stress at break	185	MPa	ISO 527-1/-2
Strain at break	2.4	%	ISO 527-1/-2
Charpy impact strength (+23°C)	50	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	50	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	7	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	7	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>			
	Value		
Melting temperature (10°C/min)	255	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	230	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	245	°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
<b>Electrical properties</b>			
	Value		
Relative permittivity (100Hz)	3.7	-	IEC 60250
Relative permittivity (1 MHz)	3.5	-	IEC 60250
Dissipation factor (100 Hz)	30	E-4	IEC 60250

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## Property Data (Provisional)

# Arnite<sup>®</sup> AV2 375 XT-HR

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Properties	Typical Data	Unit	Test Method
Dissipation factor (1 MHz)	130	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Electric strength	33	kV/mm	IEC 60243-1
Comparative tracking index	250	V	IEC 60112
<b>Other properties</b>	<b>Value</b>		
Water absorption	0.45	%	Sim. to ISO 62
Humidity absorption	0.18	%	Sim. to ISO 62
Density	1640	kg/m <sup>3</sup>	ISO 1183

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