

DSM Engineering Plastics - Property Data

Arnite® AV2 360 S

PET-GF33

33% Glass Reinforced, Flame Retardant

Properties	Typical Data	Unit	Test Method
MECHANICAL PROPERTIES			
Tensile modulus	13000	MPa	ISO 527-1/-2
Stress at break	165	MPa	ISO 527-1/-2
Strain at break	2	%	ISO 527-1/-2
Charpy impact strength (+23°C)	40	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	40	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	10	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
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)	0.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.65	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.6 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at thickness h	V-2	class	IEC 60695-11-10
Thickness tested	0.71	mm	IEC 60695-11-10
Oxygen index	36	%	ISO 4589-1/-2
ELECTRICAL PROPERTIES			
Relative permittivity (100Hz)	3.7	-	IEC 60250
Relative permittivity (1 MHz)	3.4	-	IEC 60250
Dissipation factor (100 Hz)	10	E-4	IEC 60250
Dissipation factor (1 MHz)	120	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
Electric strength	29	kV/mm	IEC 60243-1
Comparative tracking index	225	-	IEC 60112
OTHER PROPERTIES			
Water absorption	0.4	%	Sim. to ISO 62
Humidity absorption	0.12	%	Sim. to ISO 62
Density	1730	kg/m ³	ISO 1183

30.09.2003



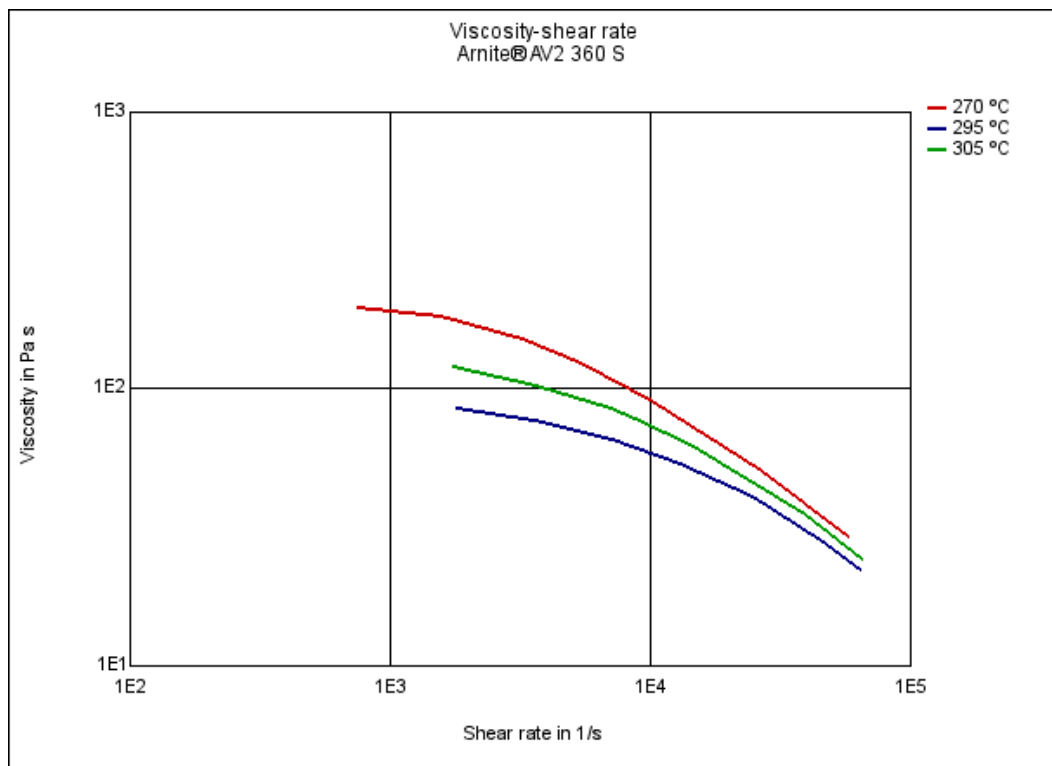
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VISCOSITY-SHEAR RATE



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