

Arnite® AV2 360 S

Polyethylene Terephthalate
DSM Engineering Plastics

Message:

Arnite® AV2 360 S is a Polyethylene Terephthalate (PET) material filled with 33% glass fiber. It is available in Europe.
Important attributes of Arnite® AV2 360 S are:
Flame Rated
Flame Retardant

General Information			
UL YellowCard	E47960-240188		
Filler / Reinforcement	Glass Fiber,33% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
Forms	Pellets		
Multi-Point Data	Isochronous Stress vs. Strain (ISO 11403-1)		
	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Shear Modulus vs. Temperature (ISO 11403-1)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.73	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.40	%	
Equilibrium, 23°C, 50% RH	0.12	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	13000	MPa	ISO 527-2
Tensile Stress (Break)	160	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.0	kJ/m²	
23°C	8.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	35	kJ/m²	
23°C	35	kJ/m²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	250	°C	ISO 75-2/B
1.8 MPa, Unannealed	218	°C	ISO 75-2/A

Melting Temperature ¹	255	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.0E-5	cm/cm/°C	
Transverse	6.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	29	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.70		
1 MHz	3.40		
Dissipation Factor			IEC 60250
100 Hz	1.0E-3		
1 MHz	0.012		
Comparative Tracking Index	225	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
1.50 mm	V-0		
0.710 mm	V-2		
Oxygen Index	36	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	3.0 to 12	hr	
Rear Temperature	270 to 280	°C	
Middle Temperature	270 to 280	°C	
Front Temperature	270 to 290	°C	
Nozzle Temperature	270 to 290	°C	
Processing (Melt) Temp	270 to 280	°C	
Mold Temperature	130 to 140	°C	
Injection Rate	Moderate-Fast		
Back Pressure	3.00 to 10.0	MPa	
Screw Compression Ratio	2.5:1.0		
NOTE			
1.	10°C/min		

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