

Arnite® AV2 370 XL-T

Polyethylene Terephthalate

DSM Engineering Plastics

Message:

Arnite® AV2 370 XL-T is a Polyethylene Terephthalate (PET) material filled with 35% glass fiber. It is available in Europe.

Important attributes of Arnite® AV2 370 XL-T are:

Flame Rated

Conductive

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Features	Low to No Outgassing		
	Thermally Conductive		

Physical	Nominal Value	Unit	Test Method
Density	1.67	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.30	%	
Water Absorption			ISO 62
Saturation, 23°C	0.45	%	
Equilibrium, 23°C, 50% RH	0.18	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14000	MPa	ISO 527-2
Tensile Stress (Break)	150	MPa	ISO 527-2
Tensile Strain (Break)	1.5	%	ISO 527-2

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	kJ/m²	ISO 179/1eU

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	250	°C	ISO 75-2/B
1.8 MPa, Unannealed	235	°C	ISO 75-2/A
Melting Temperature ¹	255	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	2.5E-5	cm/cm/°C	
Transverse	4.0E-5	cm/cm/°C	
Thermal Conductivity			ASTM E1461
-- ²	0.80	W/m/K	
-- ³	1.7	W/m/K	

Electrical	Nominal Value	Unit	Test Method
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Volume Resistivity	3.0E+13	ohms·cm	IEC 60093
Electric Strength	1.1	kV/mm	IEC 60243-1
Dielectric Constant (1.00 GHz)	14.0		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flammability Classification (1.50 mm)	HB		IEC 60695-11-10, -20
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	3.0 to 12	hr	
Rear Temperature	280 to 300	°C	
Middle Temperature	300 to 320	°C	
Front Temperature	300 to 320	°C	
Nozzle Temperature	300 to 320	°C	
Processing (Melt) Temp	300 to 320	°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		
2.	through plane		
3.	in plane		

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