

Arnite® AV2 370 /B

Polyethylene Terephthalate
DSM Engineering Plastics

Message:

Arnite® AV2 370 /B is a Polyethylene Terephthalate (PET) material filled with 35% glass fiber. It is available in Asia Pacific or Europe for injection molding. Important attributes of Arnite® AV2 370 /B are:
Flame Rated
Mold Release Agent
Typical applications include:
Automotive
Engineering/Industrial Parts

General Information			
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Additive	Mold Release		
Uses	Automotive Applications		
	Valves/Valve Parts		
Forms	Pellets		
Processing Method	Injection Molding		
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)		
	Specific Volume vs Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		
Physical	Nominal Value	Unit	Test Method
Density	1.63	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.45	%	
Equilibrium, 23°C, 50% RH	0.18	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	12600	MPa	ISO 527-2
Tensile Stress (Break)	185	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.5	kJ/m²	
23°C	9.5	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	50	kJ/m²	

23°C	70	kJ/m ²	
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	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms · cm	IEC 60093
Electric Strength	33	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.70		
1 MHz	3.50		
Dissipation Factor			IEC 60250
100 Hz	3.0E-3		
1 MHz	0.013		
Comparative Tracking Index	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		
1.50 mm	HB		
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 290	°C	
Front Temperature	270 to 290	°C	
Nozzle Temperature	270 to 290	°C	
Processing (Melt) Temp	270 to 290	°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		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

