

Arnite® TV4 230 SF

Polybutylene Terephthalate

DSM Engineering Plastics

Message:

Arnite® TV4 230 SF is a Polybutylene Terephthalate (PBT) material filled with 15% glass fiber. It is available in Asia Pacific or Europe.

Important attributes of Arnite® TV4 230 SF are:

- Flame Rated
- Flame Retardant
- High Flow

General Information			
UL YellowCard	E47960-240129		
Filler / Reinforcement	Glass Fiber,15% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	High Flow		

Physical	Nominal Value	Unit	Test Method
Density	1.56	g/cm³	ISO 1183
Water Absorption			ISO 62
Saturation, 23°C	0.30	%	
Equilibrium, 23°C, 50% RH	0.15	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7000	MPa	ISO 527-2
Tensile Stress (Break)	105	MPa	ISO 527-2
Tensile Strain (Break)	2.9	%	ISO 527-2

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m²	
23°C	6.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	40	kJ/m²	
23°C	40	kJ/m²	

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	°C	ISO 75-2/A
Melting Temperature ¹	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	5.0E-5	cm/cm/°C	
Transverse	8.0E-5	cm/cm/°C	

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength	28	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.70		
1 MHz	3.50		
Dissipation Factor			IEC 60250
100 Hz	2.5E-3		
1 MHz	0.014		
Comparative Tracking Index	250	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	V-0		
1.50 mm	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	960	°C	
1.50 mm	960	°C	
Injection	Nominal Value	Unit	
Drying Temperature	100 to 120	°C	
Drying Time	3.0 to 12	hr	
Rear Temperature	230 to 240	°C	
Middle Temperature	235 to 250	°C	
Front Temperature	240 to 255	°C	
Nozzle Temperature	240 to 260	°C	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	60.0 to 100	°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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