

Arnite® TV4 240-FC NA99001

Polybutylene Terephthalate

DSM Engineering Plastics

Message:

Arnite®TV4 240-FC NA99001 is a polybutene terephthalate (PBT) material, which contains a 20% glass fiber reinforced material. This product is available in North America, Africa and the Middle East, Latin America, Europe or Asia Pacific. Arnite®The main characteristics of TV4 240-FC NA99001 are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	23.0	cm ³ /10min	ISO 1133
Molding Shrinkage			ISO 294-4
Transverse flow	1.3	%	ISO 294-4
Flow	0.45	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	0.30	%	ISO 62
Equilibrium, 23°C, 50% RH	0.15	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7200	MPa	ISO 527-2
Tensile Stress (Break)	120	MPa	ISO 527-2
Tensile Strain (Break)	2.7	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m ²	ISO 179/1eA
23°C	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	40	kJ/m ²	ISO 179/1eU
23°C	40	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	220	°C	ISO 75-2/B
1.8 MPa, not annealed	205	°C	ISO 75-2/A
Melting Temperature ¹	225	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	4.0E-5	cm/cm/°C	ISO 11359-2
Lateral	8.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method

Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength	30	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
100 Hz	3.70		IEC 60250
1 MHz	3.50		IEC 60250
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		IEC 60250
1 MHz	0.018		IEC 60250
Comparative Tracking Index	400	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.75 mm	HB		IEC 60695-11-10, -20
1.5 mm	HB		IEC 60695-11-10, -20
Oxygen Index	20	%	ISO 4589-2
Injection	Nominal Value	Unit	
Drying Temperature	100 - 120	°C	
Drying Time	3.0 - 12	hr	
Rear Temperature	230 - 240	°C	
Middle Temperature	230 - 250	°C	
Front Temperature	240 - 260	°C	
Nozzle Temperature	240 - 260	°C	
Processing (Melt) Temp	240 - 270	°C	
Mold Temperature	60 - 100	°C	
Injection Rate	Moderate-Fast		
Back Pressure	3.00 - 10.0	MPa	
Screw Compression Ratio	2.5:1.0		
NOTE			
1.	10°C/min		

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