

Arnite® TV6 241 T

Polybutylene Terephthalate

DSM Engineering Plastics

Message:

Arnite® TV6 241 T is a Polybutylene Terephthalate (PBT) material filled with 20% glass fiber. It is available in Europe.

Important attributes of Arnite® TV6 241 T are:

Flame Rated

Impact Resistant

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Impact Resistance		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	1.3	%	
Flow	0.40	%	
Water Absorption			ISO 62
Saturation, 23°C	0.30	%	
Equilibrium, 23°C, 50% RH	0.15	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6000	MPa	ISO 527-2
Tensile Stress (Break)	85.0	MPa	ISO 527-2
Tensile Strain (Break)	4.0	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	18	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	60	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	215	°C	ISO 75-2/B
1.8 MPa, Unannealed	190	°C	ISO 75-2/A
Melting Temperature ¹	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	4.0E-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
Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.750 mm	HB		

1.60 mm	HB	
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	230 to 250	°C
Front Temperature	240 to 260	°C
Nozzle Temperature	240 to 260	°C
Processing (Melt) Temp	240 to 270	°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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