Arnite® TV4 260 S

Polybutylene Terephthalate

DSM Engineering Plastics

Message:

Arnite® TV4 260 S is a Polybutylene Terephthalate (PBT) material filled with 30% glass fiber. It is available in Asia Pacific or Europe.
Important attributes of Arnite® TV4 260 S are:
Flame Rated
Flame Retardant

General Information	
UL YellowCard	E47960-240134
Filler / Reinforcement	Glass Fiber,30% Filler by Weight
Additive	Flame Retardant
Features	Flame Retardant
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Secant Modulus vs. Strain (ISO 11403-1)
	Shear Modulus vs. Temperature (ISO 11403-1)
	Viscosity vs. Shear Rate (ISO 11403-2)

Physical	Nominal Value	Unit	Test Method
Density	1.69	g/cm³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow : 3.00 mm	1.4	%	
Flow : 3.00 mm	0.60	%	
Water Absorption			ISO 62
Saturation, 23°C	0.30	%	
Equilibrium, 23°C, 50% RH	0.15	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	11500	MPa	ISO 527-2
Tensile Stress (Break)	135	MPa	ISO 527-2
Tensile Strain (Break)	2.0	%	ISO 527-2
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	10	kJ/m²	
23°C	8.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	55	kJ/m²	
23°C	50	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B

1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Melting Temperature [1]	225	°C	ISO 11357-3
CLTE			ISO 11359-2
Flow	3.5E-5	cm/cm/°C	
Transverse	7.0E-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	4.10		
1 MHz	3.90		
Dissipation Factor			IEC 60250
100 Hz	2.0E-3		
1 MHz	0.015		
Comparative Tracking Index	250	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flammability Classification			IEC 60695-11-10, -20
1.50 mm	V-0		
0.500 mm	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	960	°C	
1.50 mm	960	°C	
Oxygen Index	36	%	ISO 4589-2
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		

Recommended distributors for this material

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