

Arnite® TV4 241 SN	DSM Engineering Plastics					
PBT-GF20 FR(17)						
Product Texts						
20% Glass Reinforced, Flame Retardant						
ISO 1043 PBT-GF20 FR(17)						
Arnite website						
Rheological properties	Value	Unit	Test Standard			
ISO Data						
Melt volume-flow rate, MVR	19	cm ³ /10min	ISO 1133			
Temperature	250	°C	ISO 1133			
Load	2.16	kg	ISO 1133			
Mechanical properties	Value	Unit	Test Standard			
ISO Data						
Tensile Modulus	8500	MPa	ISO 527-1/-2			
Stress at break	110	MPa	ISO 527-1/-2			
Strain at break	2.3	%	ISO 527-1/-2			
Charpy impact strength (+23°C)	50	kJ/m ²	ISO 179/1eU			
Charpy notched impact strength (+23°C)	10	kJ/m ²	ISO 179/1eA			
Thermal properties	Value	Unit	Test Standard			
ISO Data						
Melting temperature (10°C/min)	225	°C	ISO 11357-1/-3			
Temp. of deflection under load (1.80 MPa)	210	°C	ISO 75-1/-2			
Temp. of deflection under load (0.45 MPa)	220	°C	ISO 75-1/-2			
Coeff. of linear therm. expansion, parallel	40	E-6/K	ISO 11359-1/-2			
Coeff. of linear therm. expansion, normal	80	E-6/K	ISO 11359-1/-2			
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10			
Thickness tested	1.5	mm	IEC 60695-11-10			
UL recognition	UL	-	-			
Burning behav. at thickness h	V-2	class	IEC 60695-11-10			
Thickness tested	0.8	mm	IEC 60695-11-10			
UL recognition	UL	-	-			
Electrical properties	Value	Unit	Test Standard			
ISO Data						
Relative permittivity, 100Hz	3.2	-	IEC 60250			
Relative permittivity, 1MHz	3.2	-	IEC 60250			
Dissipation factor, 100Hz	10	E-4	IEC 60250			
Dissipation factor, 1MHz	140	E-4	IEC 60250			
Volume resistivity	>1E13	Ohm*m	IEC 60093			
Comparative tracking index	225	-	IEC 60112			
Other properties	Value	Unit	Test Standard			
ISO Data						
Water absorption	0.4	%	Sim. to ISO 62			
Humidity absorption	0.2	%	Sim. to ISO 62			
Density	1590	kg/m ³	ISO 1183			
Rheological calculation properties	Value	Unit	Test Standard			
ISO Data						
Density of melt	1360	kg/m ³	-			
Thermal conductivity of melt	0.136	W/(m K)	-			

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Spec. heat capacity of melt	1870	J/(kg K)	-	
Eff. thermal diffusivity	5.34E-8	m ² /s	-	
Characteristics				
Processing		Additives		
Injection Molding		Release agent		
Delivery form		Special Characteristics		
Pellets		Flame retardant		
Other text information				
Injection Molding				
Injection Molding Recommendations				