



Arnite® TV4 244 SX PBT-GF20 FR(17)				DSM Engineering Plastics
Mechanical properties				
	Value	Unit	Test Standard	
ISO Data				
Tensile Modulus	8600	MPa	ISO 527-1/-2	
Stress at break	110	MPa	ISO 527-1/-2	
Strain at break	2	%	ISO 527-1/-2	
Charpy impact strength (+23°C)	40	kJ/m ²	ISO 179/1eU	
Charpy impact strength, -30°C	40	kJ/m ²	ISO 179/1eU	
Charpy notched impact strength (+23°C)	4.3	kJ/m ²	ISO 179/1eA	
Charpy notched impact strength, -30°C	4.3	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	
Burning behav. at thickness h	V-0	class	IEC 60695-11-10	
Thickness tested	0.8	mm	IEC 60695-11-10	
Electrical properties				
	Value	Unit	Test Standard	
ISO Data				
Relative permittivity, 100Hz	3.9	-	IEC 60250	
Relative permittivity, 1MHz	3.7	-	IEC 60250	
Dissipation factor, 100Hz	20	E-4	IEC 60250	
Dissipation factor, 1MHz	150	E-4	IEC 60250	
Volume resistivity	>1E13	Ohm*m	IEC 60093	
Electric strength	27	kV/mm	IEC 60243-1	
Comparative tracking index	250	-	IEC 60112	
Other properties				
	Value	Unit	Test Standard	
ISO Data				
Water absorption	0.3	%	Sim. to ISO 62	
Humidity absorption	0.15	%	Sim. to ISO 62	
Density	1610	kg/m ³	ISO 1183	
Characteristics				
Processing		Additives		
Injection Molding		Release agent		
Delivery form		Special Characteristics		
Pellets		Flame retardant		