

DSM Engineering Plastics - Property Data

Arnite® TV4 240 S

PBT-GF20

20% Glass Reinforced, Flame Retardant

Properties	Typical Data	Unit	Test Method
MECHANICAL PROPERTIES			
Tensile modulus	8500	MPa	ISO 527-1/-2
Stress at break	110	MPa	ISO 527-1/-2
Strain at break	2.5	%	ISO 527-1/-2
Charpy impact strength (+23°C)	50	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	50	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	9	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
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)	0.4	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.8	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.6 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-2	class	IEC 60695-11-10
Thickness tested	0.75	mm	IEC 60695-11-10
ELECTRICAL PROPERTIES			
Relative permittivity (100Hz)	3.9	-	IEC 60250
Relative permittivity (1 MHz)	3.7	-	IEC 60250
Dissipation factor (100 Hz)	20	E-4	IEC 60250
Dissipation factor (1 MHz)	150	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
Electric strength	27	kV/mm	IEC 60243-1
Comparative tracking index	250	-	IEC 60112
OTHER PROPERTIES			
Water absorption	0.3	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62
Density	1620	kg/m ³	ISO 1183

18.02.2004



Unlimited. **DSM**

All information supplied by or on behalf of DSM in relation to its products, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but DSM assumes no liability and makes no warranties of any kind, express or implied, including, but not limited to, those of title, merchantability, fitness for a particular purpose or non-infringement or any warranty arising from a course of dealing, usage, or trade practice whatsoever in respect of application, processing or use made of the aforementioned information or product. The user assumes all responsibility for the use of all information provided and shall verify quality and other properties or any consequence from the use of all such information.