DSM Engineering Plastics - Property Data

Arnite® TV4 440 KL

(PBT+PET)-GF20

20% Glass Reinforced, Heat Stabilised, UV Stabilised

Properties	Typical Data	Unit	Test Method
MECHANICAL PROPERTIES			
Tensile modulus	**7500**	MPa	ISO 527-1/-2
Stress at break	**120**	MPa	ISO 527-1/-2
Strain at break	**3**	%	ISO 527-1/-2
Charpy impact strength (+23°C)	**40**	kJ/m²	ISO 179/1eU
Charpy impact strength (-30°C)	**40**	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	**9**	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	**9**	kJ/m²	ISO 179/1eA
THERMAL PROPERTIES			
Temp. of deflection under load (1.80 MPa)	**205**	°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)	**0.3**	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	**0.9**	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.6 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.6**	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)	**180**	E-4	IEC 60250
Comparative tracking index	**225**	-	IEC 60112
OTHER PROPERTIES			
Water absorption	**0.35**	%	Sim. to ISO 62
Humidity absorption	**0.15**	%	Sim. to ISO 62
Density	**1460**	kg/m³	ISO 1183

DSM Product

Unlimited. DSM