

DSM Engineering Plastics - Property Data

Arnite® D00 301

PET-unfilled

Low Viscosity, Transparent, Injection Moulding

Properties	Typical Data	Unit	Test Method
MECHANICAL PROPERTIES			
Tensile modulus	2500	MPa	ISO 527-1/-2
Yield stress	60	MPa	ISO 527-1/-2
Yield strain	3.5	%	ISO 527-1/-2
Nominal strain at break	>50	%	ISO 527-1/-2
Charpy impact strength (+23°C)	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	6	kJ/m ²	ISO 179/1eA
THERMAL PROPERTIES			
Temp. of deflection under load (1.80 MPa)	70	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	75	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.8	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.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	IEC 60695-11-10
ELECTRICAL PROPERTIES			
Relative permittivity (100Hz)	3.7	-	IEC 60250
Relative permittivity (1 MHz)	3.4	-	IEC 60250
Dissipation factor (100 Hz)	30	E-4	IEC 60250
Dissipation factor (1 MHz)	250	E-4	IEC 60250
Volume resistivity	>1E13	Ohm*m	IEC 60093
Surface resistivity	>1E15	Ohm	IEC 60093
Electric strength	23	kV/mm	IEC 60243-1
Comparative tracking index	200	-	IEC 60112
OTHER PROPERTIES			
Water absorption	0.8	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62
Density	1340	kg/m ³	ISO 1183

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