Arnitel®

Arnitel® EM400

TPC-ET

Injection Molding or Extrusion Grade

Print Date: 2016-04-01

Properties	Typical Data	Unit	Test Method
Rheological properties			
Melt volume-flow rate	33	cm^3/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [parallel]	1.5	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.5	%	Sim. to ISO 294-4
Mechanical properties			
Shore D Hardness (3s)	33	-	ISO 868
Tensile modulus	40	MPa	ISO 527-1/-2
Stress at break	21	MPa	ISO 527-1/-2
Nominal strain at break	825	%	ISO 527-1/-2
Stress at 5% strain	2.1	MPa	ISO 527-1/-2
Stress at 10% strain	3.5	MPa	ISO 527-1/-2
Stress at 50% strain	6.5	MPa	ISO 527-1/-2
Stress at 100% strain	7.3	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m^2	ISO 179/1eA
Charpy notched impact strength (-30°C)	N	kJ/m^2	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m^2	ISO 180/1A
Izod notched impact strength (-20°C)	N	kJ/m^2	ISO 180/1A
Thermal properties			
Melting temperature (10°C/min)	195	°C	ISO 11357-1/-3

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Coeff. of linear therm. expansion (parallel)	2.2	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	2.2	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	IEC 60695-11-10

Electrical properties

Relative permittivity (100Hz)	4.1	-	IEC 60250
Relative permittivity (1 MHz)	4	-	IEC 60250
Dissipation factor (100 Hz)	10	E-4	IEC 60250
Dissipation factor (1 MHz)	170	E-4	IEC 60250
Volume resistivity	1E13	Ohm*m	IEC 60093
Electric strength	20	kV/mm	IEC 60243-1
Comparative tracking index	600	-	IEC 60112

Other properties

Density	1110	kg/m³	ISO 1183
Apparent density	690	kg/m³	ISO 60
Water absorption	0.75	%	Sim. to ISO 62
Humidity absorption	0.3	%	Sim. to ISO 62