

Arnitel® EL740 TPC-ET

Injection Molding

Print Date: 2016-04-01

Properties	Typical Data	Unit	Test Method
Rheological properties			
Melt volume-flow rate	18	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [parallel]	1.75	%	Sim. to ISO 294-4
Molding shrinkage [normal]	2	%	Sim. to ISO 294-4
Mechanical properties			
Shore D Hardness (3s)	70	-	ISO 868
Tensile modulus	800	MPa	ISO 527-1/-2
Stress at break	43	MPa	ISO 527-1/-2
Nominal strain at break	360	%	ISO 527-1/-2
Stress at 5% strain	30	MPa	ISO 527-1/-2
Stress at 10% strain	34	MPa	ISO 527-1/-2
Stress at 50% strain	25	MPa	ISO 527-1/-2
Stress at 100% strain	26	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	10	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	9	kJ/m²	ISO 180/1A
Thermal properties			
Melting temperature (10°C/min)	221	°C	ISO 11357-1/-3
Temp. of deflection under load (0.45 MPa)	120	°C	ISO 75-1/-2

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Property Data

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Typical Data	Unit	Test Method
160	°C	ISO 306
1.65	E-4/°C	ISO 11359-1/-2
1.65	E-4/°C	ISO 11359-1/-2
НВ	class	IEC 60695-11-10
1.6	mm	IEC 60695-11-10
Yes	-	-
3.7	-	IEC 60250
3.3	-	IEC 60250
300	E-4	IEC 60250
1E13	Ohm*m	IEC 60093
23	kV/mm	IEC 60243-1
600	-	IEC 60112
1290	kg/m³	ISO 1183
830	kg/m³	ISO 60
0.6	%	Sim. to ISO 62
0.15	%	Sim. to ISO 62
	160 1.65 1.65 HB 1.6 Yes 3.7 3.3 300 1E13 23 600 1290 830 0.6	160 °C 1.65 E-4/°C 1.65 E-4/°C HB class 1.6 mm Yes - 3.7 - 3.3 - 300 E-4 1E13 Ohm*m 23 kV/mm 600 - 1290 kg/m³ 830 kg/m³ 0.6 %

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