

Arnitel[®] EL740

TPC-ET

Injection Molding, Food Contact Quality

Print Date: 2024-07-03

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	18	cm ³ /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			
	VALUE		
Shore D Hardness (3s)	70	—	ISO 868
Tensile modulus	1000	MPa	ISO 527-1/-2
Stress at break	41	MPa	ISO 527-1/-2
Nominal strain at break	350	%	ISO 527-1/-2
Stress at 5% strain	32	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/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	6	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	9	kJ/m ²	ISO 180/1A
Flexural modulus	1050	MPa	ISO 178
Compression Set under constant strain at 70 °C	35	%	ISO 815

MECHANICAL PROPERTIES (DIE CUTTING) VALUE

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Stress at break (normal)	35	MPa	ISO 527-1/-2
Tear strength (normal)	242	kN/m	ISO 34-1; Method B
Tear strength (parallel)	242	kN/m	ISO 34-1; Method B
Strain at break (normal)	400	%	ISO 527-1/-2
<i>THERMAL PROPERTIES</i>			
	<i>VALUE</i>		
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
Vicat softening temperature (50°C/h 50N)	160	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	1.65	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.65	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
<i>ELECTRICAL PROPERTIES</i>			
	<i>VALUE</i>		
Relative permittivity (100Hz)	3.7	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.3	–	IEC 62631-2-1
Dissipation factor (1 MHz)	300	E-4	IEC 62631-2-1
Volume resistivity	1E13	Ohm*m	IEC 62631-3-1
Electric strength	23	kV/mm	IEC 60243-1
Comparative tracking index	600	V	IEC 60112
<i>OTHER PROPERTIES</i>			
	<i>VALUE</i>		
Density	1290	kg/m ³	ISO 1183
Apparent density	830	kg/m ³	ISO 60
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62

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