

Arnitel[®] EL740–08

TPC–ET

Food Contact Quality, Injection Molding

Print Date: 2024–03–27

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	800	MPa	ISO 527–1/–2
Yield stress	36	MPa	ISO 527–1/–2
Yield strain	17	%	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/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
Tear strength	215	kN/m	ISO 34–1; Method B
Compression Set under constant strain at 70 °C	35	%	ISO 815

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THERMAL PROPERTIES		VALUE	
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
ELECTRICAL PROPERTIES		VALUE	
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
OTHER PROPERTIES		VALUE	
Density	1290	kg/m³	ISO 1183
Apparent density	830	kg/m³	ISO 60
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62

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