Property Data (Provisional)

Envalior
Imagine the Future

Arnitel® EL250 B–MB

TPC–ET

Injection Molding, Food Contact Quality

Print Date: 2024–10–10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	48	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [parallel]	1	%	Sim. to ISO 294–4
Molding shrinkage [normal]	1	%	Sim. to ISO 294–4
MECHANICAL PROPERTIES	**VALUE**		
Shore D Hardness (3s)	25	–	ISO 868
Shore A Hardness (3s)	85	–	ISO 868
Tensile modulus	25	MPa	ISO 527–1/–2
Stress at break	15	MPa	ISO 527–1/–2
Nominal strain at break	900	%	ISO 527–1/–2
Stress at 5% strain	1.3	MPa	ISO 527–1/–2
Stress at 10% strain	2.1	MPa	ISO 527–1/–2
Stress at 50% strain	4.5	MPa	ISO 527–1/–2
Stress at 100% strain	5.1	MPa	ISO 527–1/–2
Charpy notched impact strength (+23°C)	N	kJ/m²	ISO 179/1eA
Charpy notched impact strength (–30°C)	N	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m²	ISO 180/1A
Izod notched impact strength (–20°C)	N	kJ/m²	ISO 180/1A
Flexural modulus	20	MPa	ISO 178

Property Data (Provisional)

Arnitel® EL250 B–MB

Print Date: 2024–10–10

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	180	°C	ISO 11357–1/–3
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	1.5	mm	IEC 60695–11–10
ELECTRICAL PROPERTIES	**VALUE**		
Volume resistivity	5E12	Ohm*m	IEC 62631–3–1
OTHER PROPERTIES	**VALUE**		
Density	1080	kg/m³	ISO 1183
Apparent density	645	kg/m³	ISO 60
Water absorption	0.8	%	Sim. to ISO 62