Property Data

Envalior
Imagine the Future

Arnitel® VT 3104

TPC–ET

Film Extrusion, Food Contact Quality

Print Date: 2026–10–15

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate (MVR)	13.5	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES	**VALUE**		
Shore D Hardness (3s)	32	–	ISO 868
Tensile modulus	60	MPa	ISO 527–1/–2
Stress at break	13.1	MPa	ISO 527–1/–2
Nominal strain at break	200	%	ISO 527–1/–2
Stress at 10% strain	4.4	MPa	ISO 527–1/–2
Stress at 50% strain	8.8	MPa	ISO 527–1/–2
Stress at 100% strain	10.9	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 (–30°C)	N	kJ/m²	ISO 180/1A
Tear strength	80	kN/m	ISO 34–1; Method B
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	212	°C	ISO 11357–1/–3
Coeff. of linear therm. expansion (parallel)	1.5	E–4/°C	ISO 11359–1/–2
Coeff. of linear therm. expansion (normal)	1.5	E–4/°C	ISO 11359–1/–2

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
ELECTRICAL PROPERTIES	**VALUE**		
Relative permittivity (100Hz)	4.7	–	IEC 62631–2–1
Relative permittivity (1 MHz)	4.4	–	IEC 62631–2–1
Dissipation factor (100 Hz)	310	E–4	IEC 62631–2–1
Dissipation factor (1 MHz)	810	E–4	IEC 62631–2–1
Volume resistivity	>1E13	Ohm*m	IEC 62631–3–1
Electric strength	20	kV/mm	IEC 60243–1
Comparative tracking index	600	V	IEC 60112
OTHER PROPERTIES	**VALUE**		
Density	1160	kg/m³	ISO 1183
Water absorption	7	%	Sim. to ISO 62
Humidity absorption	0.4	%	Sim. to ISO 62

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