

# Arnitel<sup>®</sup> VT3104

## TPC-ET

Film Extrusion, Food Contact Quality

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	VALUE		
Melt volume-flow rate	13.5	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
<b>MECHANICAL PROPERTIES</b>			
	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/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	N	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength (-30°C)	N	kJ/m <sup>2</sup>	ISO 180/1A
Tear strength	80	kN/m	ISO 34-1; Method B
<b>THERMAL PROPERTIES</b>			
	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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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b><i>ELECTRICAL PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
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
<b><i>OTHER PROPERTIES</i></b>			
	<b><i>VALUE</i></b>		
Density	1160	kg/m <sup>3</sup>	ISO 1183
Water absorption	7	%	Sim. to ISO 62
Humidity absorption	0.4	%	Sim. to ISO 62

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