

# Arnitel<sup>®</sup> EL250

## TPC-ET

Injection Molding, Food Contact Quality

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	<b>VALUE</b>		
Melt volume-flow rate	48	cm <sup>3</sup> /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
<b>MECHANICAL PROPERTIES</b>			
	<b>VALUE</b>		
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/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 (-20°C)	N	kJ/m <sup>2</sup>	ISO 180/1A
Flexural modulus	20	MPa	ISO 178

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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>THERMAL PROPERTIES</b>			
	<b>VALUE</b>		
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
<b>ELECTRICAL PROPERTIES</b>			
	<b>VALUE</b>		
Volume resistivity	5E12	Ohm*m	IEC 62631-3-1
<b>OTHER PROPERTIES</b>			
	<b>VALUE</b>		
Density	1080	kg/m <sup>3</sup>	ISO 1183
Apparent density	645	kg/m <sup>3</sup>	ISO 60
Water absorption	0.8	%	Sim. to ISO 62

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