

# Arnitel<sup>®</sup> ECO L550

## TPC

34% Renewable Content, Injection Molding, Food Contact Quality

Print Date: 2024-07-03

### Sustainability

Bio-based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>		<b>VALUE</b>	
Melt volume-flow rate	44	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [parallel]	1.3	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.5	%	Sim. to ISO 294-4
<b>MECHANICAL PROPERTIES</b>		<b>VALUE</b>	
Shore D Hardness (3s)	55	–	ISO 868
Stress at break	37	MPa	ISO 527-1/-2
Nominal strain at break	600	%	ISO 527-1/-2
Stress at 5% strain	8.2	MPa	ISO 527-1/-2
Stress at 10% strain	12.3	MPa	ISO 527-1/-2
Stress at 50% strain	14.7	MPa	ISO 527-1/-2
Stress at 100% strain	13.9	MPa	ISO 527-1/-2
Izod notched impact strength (+23°C)	N	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength (-30°C)	4.2	kJ/m <sup>2</sup>	ISO 180/1A
Tear strength	132	kN/m	ISO 34-1; Method B
Compression Set under constant strain at 70 °C	38	%	ISO 815

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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)	196	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	59	°C	ISO 306
Vicat softening temperature (50°C/h 10N)	156	°C	ISO 306
<b>ELECTRICAL PROPERTIES</b>			
	<b>VALUE</b>		
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	20	kV/mm	IEC 60243-1
<b>OTHER PROPERTIES</b>			
	<b>VALUE</b>		
Density	1170	kg/m <sup>3</sup>	ISO 1183
Humidity absorption	0.03	%	Sim. to ISO 62

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