

Arnitel® ECO L550

TPC

34% Renewable Content, Injection Molding, Food Contact Quality

Sustainability

Bio-based – 14C measurable

Properties	Typical Data	Unit	Test Method
Rheological properties			
	Value		
Melt volume-flow rate	44	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Mechanical properties			
	Value		
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 ²	ISO 180/1A
Izod notched impact strength (-30°C)	4.2	kJ/m ²	ISO 180/1A
Tear strength	132	kN/m	ISO 34-1; Method B
Compression Set under constant strain at 70 °C	38	%	ISO 815
Thermal properties			
	Value		
Melting temperature (10°C/min)	196	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	59	°C	ISO 306



Property Data

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Properties	Typical Data	Unit	Test Method
Vicat softening temperature (50°C/h 10N)	156	°C	ISO 306
Electrical properties			
	Value		
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
Other properties			
	Value		
Density	1170	kg/m ³	ISO 1183
Humidity absorption	0.03	%	Sim. to ISO 62
Biobased content (in polymer)	34	% (Bio C/Total C)	ASTM D6866-12 Method B

