

Arnitel® ECO L400

TPC

>50% Renewable Content, Food Contact Quality

Sustainability

Bio-based – 14C measurable

Properties	Typical Data	Unit	Test Method
Rheological properties			
	Value		
Melt volume-flow rate	45	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (parallel)	1.2	%	ISO 294-4
Molding shrinkage (normal)	1.2	%	ISO 294-4
Mechanical properties			
	Value		
Shore D Hardness (3s)	34	–	ISO 868
Tensile modulus	40	MPa	ISO 527-1/-2
Stress at break	9	MPa	ISO 527-1/-2
Nominal strain at break	200	%	ISO 527-1/-2
Stress at 5% strain	2.7	MPa	ISO 527-1/-2
Stress at 10% strain	4.5	MPa	ISO 527-1/-2
Stress at 50% strain	7.7	MPa	ISO 527-1/-2
Stress at 100% strain	8.3	MPa	ISO 527-1/-2
Tear strength	75	kN/m	ISO 34-1; Method B
Compression Set under constant strain at 70 °C	47	%	ISO 815
Thermal properties			
	Value		
Melting temperature (10°C/min)	158	°C	ISO 11357-1/-3



Property Data (Provisional)

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Properties	Typical Data	Unit	Test Method
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	1100	kg/m ³	ISO 1183
Humidity absorption	0.04	%	Sim. to ISO 62
Biobased content (in polymer)	50	% (Bio C/Total C)	ASTM D6866-12 Method B

