

Arnitel[®] ECO L400

TPC

>50% Renewable Content, Food Contact Quality

Print Date: 2024-10-10

Sustainability

Bio-based

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	

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Melting temperature (10°C/min)	158	°C	ISO 11357-1/-3

<i>ELECTRICAL PROPERTIES</i>	<i>VALUE</i>		
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

<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Density	1100	kg/m ³	ISO 1183
Humidity absorption	0.04	%	Sim. to ISO 62