

Arnitel[®] ECO L550

TPC

34% Renewable Content, Injection Molding, Food Contact Quality

Sustainability

Bio-based

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
Molding shrinkage [parallel]	1.3	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.5	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES		VALUE	
Shore D Hardness (3s)	55	—	ISO 868
Stress at break	27	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

Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
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
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/m³	ISO 1183
Humidity absorption	0.03	%	Sim. to ISO 62