

Arnitel[®] ECO L700

TPC

22% Renewable Content, Injection Molding, Food Contact Quality

Print Date: 2024-10-10

Sustainability

Bio-based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		VALUE	
Melt volume-flow rate	50	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage [parallel]	1.25	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.5	%	Sim. to ISO 294-4
MECHANICAL PROPERTIES		VALUE	
Shore D Hardness (3s)	65	–	ISO 868
Tensile modulus	340	MPa	ISO 527-1/-2
Stress at break	36	MPa	ISO 527-1/-2
Nominal strain at break	420	%	ISO 527-1/-2
Stress at 5% strain	16.6	MPa	ISO 527-1/-2
Stress at 10% strain	21.9	MPa	ISO 527-1/-2
Stress at 50% strain	20.3	MPa	ISO 527-1/-2
Stress at 100% strain	19.8	MPa	ISO 527-1/-2
Izod notched impact strength (-30°C)	3.4	kJ/m ²	ISO 180/1A
Tear strength	172	kN/m	ISO 34-1; Method B
Compression Set under constant strain at 70 °C	39	%	ISO 815

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Property Data (Provisional)

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THERMAL PROPERTIES			
	<i>VALUE</i>		
Melting temperature (10°C/min)	209	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	95	°C	ISO 306
ELECTRICAL PROPERTIES			
	<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
OTHER PROPERTIES			
	<i>VALUE</i>		
Density	1210	kg/m ³	ISO 1183
Humidity absorption	0.02	%	Sim. to ISO 62

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