Arnitel®

Arnitel® ECO L700

TPC

22% 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	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
Thermal properties	Value		

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Property Data (Provisional)

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Properties	Typical Data	Unit	Test Method
Melting temperature (10°C/min)	209	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	95	°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	1210	kg/m³	ISO 1183
Humidity absorption	0.02	%	Sim. to ISO 62
Biobased content (in polymer)	22	% (Bio C/Total C)	ASTM D6866-12 Method B

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