

Arnitel® ECO M700

TPC

22% Renewable Content, Extrusion Grade, Food Contact Quality

Sustainability

Bio-based – 14C measurable

Properties	Typical Data	Unit	Test Method
Rheological properties	Value		
Melt volume-flow rate	5	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (parallel)	1.5	%	ISO 294-4
Molding shrinkage (normal)	1.75	%	ISO 294-4
Molding shrinkage [parallel]	1.5	%	Sim. to ISO 294-4
Molding shrinkage [normal]	1.75	%	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	27	MPa	ISO 527-1/-2
Nominal strain at break	105	%	ISO 527-1/-2
Stress at 5% strain	17	MPa	ISO 527-1/-2
Stress at 10% strain	23	MPa	ISO 527-1/-2
Stress at 50% strain	26	MPa	ISO 527-1/-2
Stress at 100% strain	27	MPa	ISO 527-1/-2
Izod notched impact strength (-30°C)	4.8	kJ/m ²	ISO 180/1A
Flexural modulus	350	MPa	ISO 178
Compression Set under constant strain at 70 °C	40	%	ISO 815



Arnitel[®] ECO M700

Properties	Typical Data	Unit	Test Method
Mechanical properties (die cutting)			
	Value		
Stress at break (normal)	49	MPa	ISO 527-1/-2
Tear strength (normal)	169	kN/m	ISO 34-1; Method B
Tear strength (parallel)	190	kN/m	ISO 34-1; Method B
Strain at break (normal)	640	%	ISO 527-1/-2
Thermal properties			
	Value		
Melting temperature (10°C/min)	210	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	99	°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	1230	kg/m ³	ISO 1183
Humidity absorption	0.01	%	Sim. to ISO 62
Biobased content (in polymer)	22	% (Bio C/Total C)	ASTM D6866-12 Method B

