Property Data (Provisional)

Envalior
Imagine the Future

Arnitel® ECO M700

TPC

22% Renewable Content, Extrusion Grade, Food Contact Quality

Print Date: 2024–10–10

Sustainability

Bio–based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate	5	cm³/10min	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/m²	ISO 180/1A
Flexural modulus	350	MPa	ISO 178
Compression Set under constant strain at 70 °C	40	%	ISO 815

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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/m³	ISO 1183
Humidity absorption	0.01	%	Sim. to ISO 62