Property Data (Provisional)

Envalior
Imagine the Future

Arnitel® ECO L460

TPC

Injection Molding, Food Contact Quality, Bio–based

Print Date: 2026–07–23

Sustainability

Bio–based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES	**VALUE**		
Melt volume–flow rate (MVR)	39	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Molding shrinkage (parallel)	1.3	%	ISO 294–4
Molding shrinkage (normal)	1.5	%	ISO 294–4
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)	45	–	ISO 868
Tensile modulus	90	MPa	ISO 527–1/–2
Stress at break	17	MPa	ISO 527–1/–2
Nominal strain at break	250	%	ISO 527–1/–2
Stress at 5% strain	5.2	MPa	ISO 527–1/–2
Stress at 10% strain	8.3	MPa	ISO 527–1/–2
Stress at 50% strain	11	MPa	ISO 527–1/–2
Stress at 100% strain	12	MPa	ISO 527–1/–2
Charpy notched impact strength (+23°C)	N	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m²	ISO 180/1A
Izod notched impact strength (–30°C)	2.6	kJ/m²	ISO 180/1A

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Flexural modulus	95	MPa	ISO 178
Compression Set under constant strain at 70 °C	45	%	ISO 815
MECHANICAL PROPERTIES (DIE CUTTING)	**VALUE**		
Stress at break (normal)	24	MPa	ISO 527-1/-2
Tear strength (normal)	107	kN/m	ISO 34-1; Method B
Tear strength (parallel)	106	kN/m	ISO 34-1; Method B
Strain at break (normal)	700	%	ISO 527-1/-2
THERMAL PROPERTIES	**VALUE**		
Melting temperature (10°C/min)	180	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	38	°C	ISO 306
Burning Behav. at 0.75 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	0.75	mm	IEC 60695-11-10
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
Burning Behav. at 3.0 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	3	mm	IEC 60695-11-10
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	1140	kg/m³	ISO 1183
Humidity absorption	0.03	%	Sim. to ISO 62

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