

Arnitel[®] ECO L460

TPC

Injection Molding, Food Contact Quality, Bio-based

Print Date: 2026-04-09

Sustainability

Bio-based

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES		VALUE	
Melt volume-flow rate (MVR)	39	cm ³ /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/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m ²	ISO 180/1A
Izod notched impact strength (-30°C)	2.6	kJ/m ²	ISO 180/1A

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied.

Seller is not responsible or liable for the design of the products of the Customer and it is the responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims each and every representation or warranty, whether express or implied, in that respect.

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values. Copyright © Envalior 2026. All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of Envalior.

Arnitel[®] ECO L460

Print Date: 2026-04-09

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
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 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/m ³	ISO 1183
Humidity absorption	0.03	%	Sim. to ISO 62