

# Arnitel<sup>®</sup> EM550

## TPC-ET

Film Extrusion, Food Contact Quality

Print Date: 2024-12-03

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	VALUE		
Melt volume-flow rate	9	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
<b>MECHANICAL PROPERTIES</b>			
	VALUE		
Shore D Hardness (3s)	52	–	ISO 868
Tensile modulus	175	MPa	ISO 527-1/-2
Stress at break	25	MPa	ISO 527-1/-2
Nominal strain at break	360	%	ISO 527-1/-2
Stress at 5% strain	8	MPa	ISO 527-1/-2
Stress at 10% strain	12	MPa	ISO 527-1/-2
Stress at 50% strain	15	MPa	ISO 527-1/-2
Stress at 100% strain	16	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	25	kJ/m <sup>2</sup>	ISO 179/1eA
Flexural modulus	180	MPa	ISO 178
Compression Set under constant strain at 70 °C	40	%	ISO 815
<b>MECHANICAL PROPERTIES (DIE CUTTING)</b>			
	VALUE		
Stress at break (normal)	41	MPa	ISO 527-1/-2
Tear strength (normal)	125	kN/m	ISO 34-1; Method B

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 2024. 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.

## Property Data

# Arnitel<sup>®</sup> EM550

Print Date: 2024-12-03

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Tear strength (parallel)	134	kN/m	ISO 34-1; Method B
Strain at break (normal)	820	%	ISO 527-1/-2
<b><i>THERMAL PROPERTIES</i></b>		<b><i>VALUE</i></b>	
Melting temperature (10°C/min)	207	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	90	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	1.5	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.5	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	IEC 60695-11-10
<b><i>ELECTRICAL PROPERTIES</i></b>		<b><i>VALUE</i></b>	
Relative permittivity (100Hz)	4.4	—	IEC 62631-2-1
Relative permittivity (1 MHz)	4	—	IEC 62631-2-1
Dissipation factor (1 MHz)	400	E-4	IEC 62631-2-1
Volume resistivity	1E11	Ohm*m	IEC 62631-3-1
Electric strength	21	kV/mm	IEC 60243-1
<b><i>OTHER PROPERTIES</i></b>		<b><i>VALUE</i></b>	
Density	1200	kg/m <sup>3</sup>	ISO 1183
Water absorption	0.65	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62

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 2024. 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.