

Arnitel[®] EM550

TPC-ET

Film Extrusion, Food Contact Quality

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	9	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES			
	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 ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	25	kJ/m ²	ISO 179/1eA
Flexural modulus	180	MPa	ISO 178
Compression Set under constant strain at 70 °C	40	%	ISO 815
MECHANICAL PROPERTIES (DIE CUTTING)			
	VALUE		
Stress at break (normal)	41	MPa	ISO 527-1/-2
Tear strength (normal)	125	kN/m	ISO 34-1; Method B

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<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
<i>THERMAL PROPERTIES</i>		<i>VALUE</i>	
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
<i>ELECTRICAL PROPERTIES</i>		<i>VALUE</i>	
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
<i>OTHER PROPERTIES</i>		<i>VALUE</i>	
Density	1200	kg/m ³	ISO 1183
Water absorption	0.65	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62

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