

# Arnitel<sup>®</sup> EM630-H

## TPC-ET

Extrusion Grade, Heat Stabilized

Print Date: 2024-06-20

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	VALUE		
Melt volume-flow rate	3.7	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)	59	–	ISO 868
Tensile modulus	275	MPa	ISO 527-1/-2
Stress at break	27	MPa	ISO 527-1/-2
Nominal strain at break	220	%	ISO 527-1/-2
Stress at 5% strain	12	MPa	ISO 527-1/-2
Stress at 10% strain	17	MPa	ISO 527-1/-2
Stress at 50% strain	21	MPa	ISO 527-1/-2
Stress at 100% strain	21	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)	12	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m <sup>2</sup>	ISO 180/1A
Flexural modulus	305	MPa	ISO 178
<b>MECHANICAL PROPERTIES (DIE CUTTING)</b>			
	VALUE		
Stress at break (normal)	52	MPa	ISO 527-1/-2
Tear strength (normal)	156	kN/m	ISO 34-1; Method B

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## Property Data

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PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
Tear strength (parallel)	168	kN/m	ISO 34-1; Method B
Strain at break (normal)	750	%	ISO 527-1/-2

### THERMAL PROPERTIES

#### VALUE

Melting temperature (10°C/min)	212	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	125	°C	ISO 306
Vicat softening temperature (50°C/h 10N)	200	°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

### ELECTRICAL PROPERTIES

#### VALUE

Relative permittivity (1 MHz)	4.1	—	IEC 62631-2-1
Dissipation factor (1 MHz)	170	E-4	IEC 62631-2-1
Volume resistivity	1.2E11	Ohm*m	IEC 62631-3-1
Electric strength	22	kV/mm	IEC 60243-1
Comparative tracking index	600	V	IEC 60112

### OTHER PROPERTIES

#### VALUE

Density	1240	kg/m <sup>3</sup>	ISO 1183
Water absorption	0.63	%	Sim. to ISO 62
Humidity absorption	0.18	%	Sim. to ISO 62

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