

# Arnitel<sup>®</sup> EM631-HB

## 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	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)	57	–	ISO 868
Shore D Hardness (15s)	57	–	ISO 868
Shore A Hardness (3s)	98	–	ISO 868
Shore A Hardness (15s)	98	–	ISO 868
Tensile modulus	260	MPa	ISO 527-1/-2
Stress at break	31	MPa	ISO 527-1/-2
Nominal strain at break	250	%	ISO 527-1/-2
Stress at 5% strain	11.4	MPa	ISO 527-1/-2
Stress at 10% strain	16.5	MPa	ISO 527-1/-2
Stress at 50% strain	20.9	MPa	ISO 527-1/-2
Stress at 100% strain	22.1	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	21	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	11	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	21	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength (-30°C)	10	kJ/m <sup>2</sup>	ISO 180/1A
Tear strength	148	kN/m	ISO 34-1; Method B
Compression Set under constant strain at 70 °C	29	%	ISO 815

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## Property Data

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<b>THERMAL PROPERTIES</b>			
	<i>VALUE</i>		
Melting temperature (10°C/min)	212	°C	ISO 11357–1/–3
Glass Transition Temperature from DMTA (E)	–30	°C	ASTM D5026/D7028
Vicat softening temperature (50°C/h 50N)	110	°C	ISO 306
Vicat softening temperature (50°C/h 10N)	200	°C	ISO 306
<b>OTHER PROPERTIES</b>			
	<i>VALUE</i>		
Density	1230	kg/m <sup>3</sup>	ISO 1183
Humidity absorption	0.16	%	Sim. to ISO 62

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