

# Arnitel<sup>®</sup> EM740-H

## TPC-ET

Extrusion Grade, Heat Stabilized

Print Date: 2024-03-27

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
<b>RHEOLOGICAL PROPERTIES</b>			
	VALUE		
Melt volume-flow rate	4	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)	71	–	ISO 868
Tensile modulus	950	MPa	ISO 527-1/-2
Stress at break	26	MPa	ISO 527-1/-2
Nominal strain at break	35	%	ISO 527-1/-2
Stress at 5% strain	34	MPa	ISO 527-1/-2
Stress at 10% strain	36	MPa	ISO 527-1/-2
Charpy notched impact strength (-30°C)	8	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength (+23°C)	18	kJ/m <sup>2</sup>	ISO 180/1A
Flexural modulus	940	MPa	ISO 178
Compression Set under constant strain at 70 °C	55	%	ISO 815
<b>MECHANICAL PROPERTIES (DIE CUTTING)</b>			
	VALUE		
Stress at break (normal)	58	MPa	ISO 527-1/-2
Tear strength (normal)	224	kN/m	ISO 34-1; Method B
Tear strength (parallel)	228	kN/m	ISO 34-1; Method B
Strain at break (normal)	570	%	ISO 527-1/-2

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## Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
<b>THERMAL PROPERTIES</b>			
	<i>VALUE</i>		
Melting temperature (10°C/min)	221	°C	ISO 11357-1/-3
<b>ELECTRICAL PROPERTIES</b>			
	<i>VALUE</i>		
Relative permittivity (1 MHz)	3.8	—	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Comparative tracking index	600	V	IEC 60112
<b>OTHER PROPERTIES</b>			
	<i>VALUE</i>		
Density	1290	kg/m <sup>3</sup>	ISO 1183
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62

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