

## Arnitel® EM740

## TPC-ET

Extrusion Grade

Print Date: 2018-05-01

Properties	Typical Data	Unit	Test Method
<b>Rheological properties</b>		<b>Value</b>	
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>		<b>Value</b>	
Shore D Hardness (3s)	71	-	ISO 868
Tensile modulus	1000	MPa	ISO 527-1/-2
Stress at break	38	MPa	ISO 527-1/-2
Nominal strain at break	250	%	ISO 527-1/-2
Stress at 5% strain	31	MPa	ISO 527-1/-2
Stress at 10% strain	34.5	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	15	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	6	kJ/m <sup>2</sup>	ISO 179/1eA
<b>Thermal properties</b>		<b>Value</b>	
Melting temperature (10°C/min)	221	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	160	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	1.65	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.65	E-4/°C	ISO 11359-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	IEC 60695-11-10
<b>Electrical properties</b>		<b>Value</b>	

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## Property Data

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Properties	Typical Data	Unit	Test Method
Relative permittivity (100Hz)	3.7	-	IEC 60250
Relative permittivity (1 MHz)	3.4	-	IEC 60250
Dissipation factor (1 MHz)	400	E-4	IEC 60250
Volume resistivity	1E13	Ohm*m	IEC 60093
Electric strength	23	kV/mm	IEC 60243-1
Comparative tracking index	600	V	IEC 60112

### Other properties

### Value

Density	1290	kg/m <sup>3</sup>	ISO 1183
Apparent density	820	kg/m <sup>3</sup>	ISO 60
Water absorption	0.6	%	Sim. to ISO 62
Humidity absorption	0.15	%	Sim. to ISO 62

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