## **Arnitel**<sup>®</sup>

## Arnitel<sup>®</sup> PM381 **TPC-ET**

**Extrusion Grade** 

			Print Date: 2018-05-01
Properties	Typical Data	Unit	Test Method
Phoological properties	Value		
Rheological properties		27	
Melt volume-flow rate	4.7	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Mechanical properties	Value		
Shore D Hardness (3s)	32	_	ISO 868
Tensile modulus	42	MPa	ISO 527-1/-2
Stress at break	12.5	MPa	ISO 527-1/-2
Nominal strain at break	155	%	ISO 527-1/-2
Stress at 5% strain	2.2	MPa	ISO 527-1/-2
Stress at 10% strain	4	MPa	ISO 527-1/-2
Stress at 50% strain	8.3	MPa	ISO 527-1/-2
Stress at 100% strain	10.9	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	Ν	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	Ν	kJ/m²	ISO 179/1eA
Izod notched impact strength (+23°C)	N	kJ/m²	ISO 180/1A
Izod notched impact strength (-30°C)	Ν	kJ/m²	ISO 180/1A
Thermal properties	Value		
Thermal properties		0.5	
Melting temperature (10°C/min)	212	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	120	°C	ISO 306
Vicat softening temperature (50°C/h 10N)	127	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	1.5	E−4/°C	ISO 11359-1/-2

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## Property Data Arnitel<sup>®</sup> PM381

## Print Date: 2018-05-01

Properties	Typical Data	Unit	Test Method
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	1.6	mm	IEC 60695-11-10
Electrical properties	Value		
Relative permittivity (100Hz)	4.7	-	IEC 60250
Relative permittivity (1 MHz)	4.4	-	IEC 60250
Dissipation factor (100 Hz)	310	E-4	IEC 60250
Dissipation factor (1 MHz)	810	E-4	IEC 60250
Volume resistivity	1E12	Ohm*m	IEC 60093
Electric strength	20	kV/mm	IEC 60243-1
Comparative tracking index	600	V	IEC 60112
Other properties	Value		
Density	1160	kg/m³	ISO 1183
Water absorption	7	%	Sim. to ISO 62
Humidity absorption	0.4	%	Sim. to ISO 62

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