Arnitel®

Arnitel® EM630-H

TPC-ET

Extrusion Grade, Heat Stabilized

Print Date: 2018-05-01

Properties	Typical Data	Unit	Test Method
Rheological properties	Value		
Melt volume-flow rate	3.7	cm³/10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
Mechanical properties	Value		
Shore D Hardness (3s)	59	-	ISO 868
Tensile modulus	310	MPa	ISO 527-1/-2
Stress at break	35	MPa	ISO 527-1/-2
Stress at 5% strain	11	MPa	ISO 527-1/-2
Stress at 10% strain	16	MPa	ISO 527-1/-2
Stress at 50% strain	19	MPa	ISO 527-1/-2
Stress at 100% strain	16	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	N	kJ/m²	ISO 179/1eA
Charpy notched impact strength (-30°C)	12	kJ/m²	ISO 179/1eA
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
Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.6	mm	IEC 60695-11-10

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Properties	Typical Data	Unit	Test Method
Electrical properties	**Value**		
Relative permittivity (1 MHz)	4.1	-	IEC 60250
Dissipation factor (1 MHz)	170	E-4	IEC 60250
Volume resistivity	1.2E11	Ohm*m	IEC 60093
Electric strength	22	kV/mm	IEC 60243-1
Comparative tracking index	600	V	IEC 60112
Other properties	**Value**		
Density	1240	kg/m³	ISO 1183
Water absorption	0.63	%	Sim. to ISO 62
Humidity absorption	0.18	%	Sim. to ISO 62