

Arnitel[®] CM600-V

TPC-ES FR

Extrusion, Flame Retardant (halogen free)

Print Date: 2024-10-29

PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	13	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES			
	VALUE		
Shore D Hardness (3s)	62	–	ISO 868
Shore D Hardness (15s)	62	–	ISO 868
Tensile modulus	500	MPa	ISO 527-1/-2
Stress at break	18	MPa	ISO 527-1/-2
Nominal strain at break	200	%	ISO 527-1/-2
Stress at 5% strain	17	MPa	ISO 527-1/-2
Stress at 10% strain	20	MPa	ISO 527-1/-2
Stress at 50% strain	18	MPa	ISO 527-1/-2
Stress at 100% strain	17	MPa	ISO 527-1/-2
Charpy notched impact strength (+23°C)	11	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	3	kJ/m ²	ISO 179/1eA
Izod notched impact strength (+23°C)	11	kJ/m ²	ISO 180/1A
Izod notched impact strength (-20°C)	3.2	kJ/m ²	ISO 180/1A
Compression Set under constant strain at 23 °C	23	%	ISO 815
Compression Set under constant strain at 70 °C	50	%	ISO 815

MECHANICAL PROPERTIES (DIE CUTTING) VALUE

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Property Data

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Stress at break (normal)	17	MPa	ISO 527-1/-2
Stress at 5% strain (normal)	16	MPa	ISO 527-1/-2
Stress at 10% strain (normal)	19	MPa	ISO 527-1/-2
Stress at 50% strain (normal)	17	MPa	ISO 527-1/-2
Stress at 100% strain (normal)	16	MPa	ISO 527-1/-2
Tear strength (normal)	131	kN/m	ISO 34-1; Method B
Tear strength (parallel)	134	kN/m	ISO 34-1; Method B
Strain at break (normal)	310	%	ISO 527-1/-2
<i>THERMAL PROPERTIES</i>			
	<i>VALUE</i>		
Melting temperature (10°C/min)	205	°C	ISO 11357-1/-3
Vicat softening temperature (50°C/h 50N)	85	°C	ISO 306
Coeff. of linear therm. expansion (parallel)	1.25	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	1.23	E-4/°C	ISO 11359-1/-2
<i>ELECTRICAL PROPERTIES</i>			
	<i>VALUE</i>		
Relative permittivity (100Hz)	4.2	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.7	–	IEC 62631-2-1
Dissipation factor (100 Hz)	157	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	385	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Electric strength	26.3	kV/mm	IEC 60243-1
Comparative tracking index	600	V	IEC 60112
<i>OTHER PROPERTIES</i>			
	<i>VALUE</i>		
Density	1320	kg/m ³	ISO 1183
Humidity absorption	0.1	%	Sim. to ISO 62

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