

Arnitel[®] CM550-S

TPC-ES FR

57 Shore D, Extrusion, Flame Retardant

Print Date: 2024-06-11

<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
RHEOLOGICAL PROPERTIES			
	VALUE		
Melt volume-flow rate	17	cm ³ /10min	ISO 1133
Temperature	230	°C	ISO 1133
Load	2.16	kg	ISO 1133
MECHANICAL PROPERTIES			
	VALUE		
Shore D Hardness (3s)	57	–	ISO 868
Shore D Hardness (15s)	57	–	ISO 868
Tensile modulus	200	MPa	ISO 527-1/-2
Stress at break	28	MPa	ISO 527-1/-2
Nominal strain at break	400	%	ISO 527-1/-2
Stress at 5% strain	10	MPa	ISO 527-1/-2
Stress at 10% strain	14	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)	N	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	5	kJ/m ²	ISO 179/1eA
Izod notched impact strength (-20°C)	N	kJ/m ²	ISO 180/1A
Izod notched impact strength (-30°C)	5.4	kJ/m ²	ISO 180/1A
Compression Set under constant strain at 70 °C	52	%	ISO 815
MECHANICAL PROPERTIES (DIE CUTTING)			
	VALUE		
Stress at break (normal)	31	MPa	ISO 527-1/-2

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<i>PROPERTIES</i>	<i>TYPICAL DATA</i>	<i>UNIT</i>	<i>TEST METHOD</i>
Stress at 5% strain (normal)	9.6	MPa	ISO 527-1/-2
Stress at 10% strain (normal)	13	MPa	ISO 527-1/-2
Stress at 50% strain (normal)	16	MPa	ISO 527-1/-2
Stress at 100% strain (normal)	15	MPa	ISO 527-1/-2
Tear strength (normal)	145	kN/m	ISO 34-1; Method B
Tear strength (parallel)	160	kN/m	ISO 34-1; Method B
Strain at break (normal)	590	%	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)	71	°C	ISO 306

<i>ELECTRICAL PROPERTIES</i>	<i>VALUE</i>		
Relative permittivity (100Hz)	4.2	–	IEC 62631-2-1
Relative permittivity (1 MHz)	3.5	–	IEC 62631-2-1
Dissipation factor (100 Hz)	180	E-4	IEC 62631-2-1
Dissipation factor (1 MHz)	495	E-4	IEC 62631-2-1
Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1

<i>OTHER PROPERTIES</i>	<i>VALUE</i>		
Density	1310	kg/m ³	ISO 1183
Humidity absorption	0.11	%	Sim. to ISO 62

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