

Product Texts

Extrusion, Flame Retardant (halogen free)

ISO 18064 TPC-ES FR

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	13	cm ³ /10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Charpy impact strength, +23°C	N	kJ/m ²	ISO 179/1eU
^[C] Charpy impact strength, -30°C	50	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	11	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	3	kJ/m ²	ISO 179/1eA
^[C] Stress at 10% elongation	20	MPa	ISO 527
^[C] Stress at 100% elongation	17	MPa	ISO 527
^[C] Stress at break TPE	18	MPa	ISO 527
^[C] Compression set at 70 °C, 24h	50	%	ISO 815
^[C] Shore D hardness	62	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	205	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	-10	°C	ISO 11357-1/-2
^[C] Vicat softening temperature, B	85	°C	ISO 306

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
ISO Data			
^[C] Relative permittivity, 100Hz	4.2	-	IEC 62631-2-1
^[C] Relative permittivity, 1MHz	3.7	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	157	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	385	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
^[C] Electric strength	18.7	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Humidity absorption	0.1	%	Sim. to ISO 62
^[C] Density	1320	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding, Other Extrusion

Special Characteristics

Flame retardant, Halogen-free

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Other text information

Injection molding

[Injection Molding Recommendations](#)

[Steel recommendations for molds screws and barrels](#)

[Trouble shooting guideline for injection molding](#)

Other extrusion

[Extrusion guideline Arnitel® C and Arnitel® U](#)

[Arnitel® Recommendations for Extrusion](#)