

Product Texts

57 Shore D, Extrusion, Flame Retardant

ISO 18064 TPC-ES FR

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Melt volume-flow rate, MVR	17	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	N	kJ/m ²	ISO 179/1eU
^[C] Charpy notched impact strength, +23°C	N	kJ/m ²	ISO 179/1eA
^[C] Charpy notched impact strength, -30°C	5	kJ/m ²	ISO 179/1eA
^[C] Stress at 10% elongation	14	MPa	ISO 527
^[C] Stress at 100% elongation	17	MPa	ISO 527
^[C] Stress at break TPE	28	MPa	ISO 527
^[C] Strain at break TPE	>300	%	ISO 527
^[C] Compression set at 70 °C, 24h	52	%	ISO 815
^[C] Shore D hardness	57	-	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	-20	°C	ISO 11357-1/-2
^[C] Vicat softening temperature, B	71	°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	3.5	-	IEC 62631-2-1
^[C] Dissipation factor, 100Hz	180	E-4	IEC 62631-2-1
^[C] Dissipation factor, 1MHz	495	E-4	IEC 62631-2-1
^[C] Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Humidity absorption	0.11	%	Sim. to ISO 62
^[C] Density	1310	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Other Extrusion

Special Characteristics

Flame retardant

Delivery form

Pellets

Regional Availability

North America, Europe, Asia Pacific

Other text information

Injection molding

[Injection Molding Recommendations](#)

Other extrusion

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