

**Product Texts**

Flame Retardant (halogen- phosphorous-free)

ISO 18064 TPC-ES FR

Due to limited hydrolysis resistance, this material should only be used in dry environments.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	15	cm <sup>3</sup> /10min	ISO 1133
Temperature	230	°C	-
Load	2.16	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Yield stress	15	MPa	ISO 527
<sup>[C]</sup> Yield strain	22	%	ISO 527
<sup>[C]</sup> Nominal strain at break	>50	%	ISO 527
<sup>[C]</sup> Charpy notched impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Stress at 10% elongation	13	MPa	ISO 527
<sup>[C]</sup> Stress at 100% elongation	17.5	MPa	ISO 527
<sup>[C]</sup> Stress at break TPE	27	MPa	ISO 527
<sup>[C]</sup> Shore D hardness	55	-	ISO 7619-1

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	200	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	85	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	90	°C	ISO 306
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	V-2	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	5.2	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	0.02	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Electric strength	20	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	0.6	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	0.25	%	Sim. to ISO 62
<sup>[C]</sup> Density	1280	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding, Other Extrusion

**Delivery form**

Pellets

**Special Characteristics**

Flame retardant, Halogen-free, Phosphorus-free, Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

**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](#)