

**Product Texts**

Low Viscosity, Flame Retardant, Molding Release, UV Stabilized

ISO 1043 PC FR

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Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	<b>10</b>	cm <sup>3</sup> /10min	ISO 1133
Temperature	<b>300</b>	°C	-
Load	<b>1.2</b>	kg	-
<sup>[C]</sup> Molding shrinkage, parallel	<b>0.6</b>	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	<b>1010</b>	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	<b>0.24</b>	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	<b>1710</b>	J/(kg K)	-
<sup>[C]</sup> Eff. thermal diffusivity	<b>1.4E-7</b>	m <sup>2</sup> /s	-
<sup>[C]</sup> Ejection temperature	<b>131</b>	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>2300</b>	MPa	ISO 527
<sup>[C]</sup> Yield stress	<b>60</b>	MPa	ISO 527
<sup>[C]</sup> Yield strain	<b>6</b>	%	ISO 527
<sup>[C]</sup> Nominal strain at break	<b>&gt;50</b>	%	ISO 527

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>130</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Vicat softening temperature, B	<b>148</b>	°C	ISO 306
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	<b>65</b>	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	<b>V-2</b>	class	IEC 60695-11-10
Thickness tested	<b>1.5</b>	mm	-
Yellow Card available	<b>yes</b>	-	-
<sup>[C]</sup> Burning Behav. at thickness h	<b>V-0</b>	class	IEC 60695-11-10
Thickness tested	<b>3.0</b>	mm	-
Yellow Card available	<b>yes</b>	-	-
<sup>[C]</sup> Oxygen index	<b>35</b>	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 100Hz	<b>3</b>	-	IEC 62631-2-1
<sup>[C]</sup> Relative permittivity, 1MHz	<b>2.9</b>	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	<b>6.6</b>	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	<b>92</b>	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	<b>&gt;1E13</b>	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	<b>&gt;1E15</b>	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	<b>29</b>	kV/mm	IEC 60243-1
<sup>[C]</sup> Comparative tracking index	<b>225</b>	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	<b>0.35</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1200</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

Material specific properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Viscosity number	55	cm³/g	ISO 307, 1157, 1628
[C]: CAMPUS			

Test specimen production	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Injection Molding, melt temperature	300	°C	ISO 294
Injection Molding, mold temperature	90	°C	ISO 294
[C]: CAMPUS			

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.03	%	-
Melt temperature	290 - 320	°C	-
Mold temperature	80 - 120	°C	-
Zone 1	260 - 280	°C	-
Zone 2	270 - 290	°C	-
Zone 3	280 - 300	°C	-
Nozzle temperature	270 - 290	°C	-

**Characteristics**

**Processing**

Injection Molding, Blow Molding

**Delivery form**

Pellets

**Additives**

Release agent

**Special Characteristics**

Flame retardant, Light stabilized or stable to light, U.V. stabilized or stable to weather, Heat stabilized or stable to heat, Transparent

**Regional Availability**

Europe

**Other text information**

**Injection molding**

[Injection Molding Recommendations](#)