

## Product Texts

Crastin® SC164 NC010 is an Unreinforced, Medium Viscosity Polybutylene Terephthalate for Health Care Applications

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	1.6	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	1.6	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	1110	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.21	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	2110	J/(kg K)	-
<sup>[C]</sup> Ejection temperature	170	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	2400	MPa	ISO 527
<sup>[C]</sup> Yield stress	55	MPa	ISO 527
<sup>[C]</sup> Yield strain	4	%	ISO 527
<sup>[C]</sup> Nominal strain at break	30	%	ISO 527
<sup>[C]</sup> Tensile creep modulus, 1h	2600	MPa	ISO 899-1
<sup>[C]</sup> Tensile creep modulus, 1000h	1800	MPa	ISO 899-1
<sup>[C]</sup> Charpy impact strength, +23°C	N	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	4	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	4	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	223	°C	ISO 11357-1/-3
<sup>[C]</sup> Glass transition temperature, 10°C/min	55	°C	ISO 11357-1/-2
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	50	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	115	°C	ISO 75-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	110	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	120	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
<sup>[C]</sup> Oxygen index	22	%	ISO 4589-1/-2

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Relative permittivity, 1MHz	3.2	-	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 100Hz	20	E-4	IEC 62631-2-1
<sup>[C]</sup> Dissipation factor, 1MHz	200	E-4	IEC 62631-2-1
<sup>[C]</sup> Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
<sup>[C]</sup> Surface resistivity	1E12	Ohm	IEC 62631-3-2
<sup>[C]</sup> Electric strength	26	kV/mm	IEC 60243-1

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	0.4	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	0.2	%	Sim. to ISO 62
<sup>[C]</sup> Density	1310	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

## Characteristics

## Crastin® SC164 NC010

PBT

Celanese

### Processing

Injection Molding

### Regional Availability

North America, Europe, Asia Pacific, South and Central America

### Delivery form

Pellets, Natural Color