Crastin® PC164 NC010

PBT — Celanese

Product Texts

Crastin® PC164 NC010 is an Unreinforced, Medium Viscosity Polybutylene Terephthalate for Health Care Applications

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**1.6**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**1.6**	%	ISO 294-4, 2577
[C] Density of melt	**1110**	kg/m³	-
[C] Thermal conductivity of melt	**0.21**	W/(m K)	-
[C] Spec. heat capacity of melt	**2110**	J/(kg K)	-
[C] Ejection temperature	**170**	°C	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**2400**	MPa	ISO 527
[C] Yield stress	**55**	MPa	ISO 527
[C] Yield strain	**4**	%	ISO 527
[C] Nominal strain at break	**30**	%	ISO 527
[C] Tensile creep modulus, 1h	**2600**	MPa	ISO 899-1
[C] Tensile creep modulus, 1000h	**1800**	MPa	ISO 899-1
[C] Charpy impact strength, +23°C	**N**	kJ/m²	ISO 179/1eU
[C] Charpy notched impact strength, +23°C	**4**	kJ/m²	ISO 179/1eA
[C] Charpy notched impact strength, -30°C	**4**	kJ/m²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Melting temperature, 10°C/min	**225**	°C	ISO 11357-1/-3
[C] Glass transition temperature, 10°C/min	**55**	°C	ISO 11357-1/-2
[C] Temp. of deflection under load, 1.80 MPa	**50**	°C	ISO 75-1/-2
[C] Temp. of deflection under load, 0.45 MPa	**115**	°C	ISO 75-1/-2
[C] Coeff. of linear therm. expansion, parallel	**110**	E-6/K	ISO 11359-1/-2
[C] Coeff. of linear therm. expansion, normal	**120**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
Thickness tested	**1.5**	mm	-
[C] Oxygen index	**22**	%	ISO 4589-1/-2

[C]: CAMPUS

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

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.4**	%	Sim. to ISO 62
[C] Humidity absorption	**0.2**	%	Sim. to ISO 62
[C] Density	**1310**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Pellets, Natural Color

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