

# CHANG CHUN PLASTICS CO., LTD.

NO. 301, SONGKIANG ROAD, 7<sup>TH</sup> FL., TAIPEI, 10477 TAIWAN  
TEL : 886-2-2503-8131 (REF) FAX : 886-2- 2501-8018

## CCP PBT/PC 6000-175 THERMOPLASTIC POLYESTER RESIN

### Product Description

PBT/PC 6000-175 is unreinforced high impact modified injection molding grade.

### Characteristics

Processing	• Injection Moulding
Deliver form	• Pellets
Additives	• Impact modifier, Release agent

General information	Value	Unit	Test Method
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Part Marking Code	>(PBT+PC)<		ISO 11469
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Physical properties	Value	Unit	Test Method
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Density	1.20	g/cm <sup>3</sup>	ISO 1183
Viscosity Number	-	cm <sup>3</sup> /g	ISO 1628
Moulding shrinkage, parallel	0.6-1.6	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.6-1.6	%	ISO 294-4, 2577
Moisture	-	%	ISO 62

Rheological properties	Value	Unit	Test Method
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Melt volume-flow rate, 270°C 2.16kg	-	cm <sup>3</sup> /10min	ISO 1133
Melt mass-flow rate, 270°C 2.16kg	-	g/10min	ISO 1133
Melt viscosity, 260°C 1000sec <sup>-1</sup>	380	Pa*s	ISO 1143

Mechanical properties	Value	Unit	Test Method
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Stress at break	50	MPa	ISO 527-1/-2
Strain at break	100	%	ISO 527-1/-2
Tensile Modulus	2600	MPa	ISO 527-1/-2
Flexural Strength	75	MPa	ISO 178
Flexural Modulus	2000	MPa	ISO 178
Charpy impact strength – notched			ISO 179/1eA
23°C	70	kJ/m <sup>2</sup>	
-40°C	-	kJ/m <sup>2</sup>	
Charpy impact strength – unnotched			ISO 179/1eU
23°C	N.B.	kJ/m <sup>2</sup>	

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-40°C	-	$\text{kJ/m}^2$	
<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Method</b>
Melting temperature, 10°C/min	225	°C	ISO 11357-1/-3
Heat deflection temperature under load			ISO 75-1/-2
1.80 Mpa	85	°C	
0.45 MPa	-	°C	
<b>Flammability</b>	<b>Value</b>	<b>Unit</b>	<b>Test Method</b>
Flammability acc. to UL94, 0.8mm thickness	HB	-	UL 94
Glow Wire Flammability Index			IEC 60695-2-1/2
0.75mm	-	°C	
1.5mm	-	°C	
3mm	-	°C	
Glow Wire Ignition Temperature			IEC 60695-2-1/3
0.75mm	-	°C	
1.5mm	-	°C	
3mm	-	°C	
<b>Electrical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Method</b>
Electric strength, 2mm	20	kV/mm	IEC 60243-1
Volume resistivity	$10^{14}$	$\Omega \cdot \text{m}$	IEC 60093
Surface resistivity	$10^{13}$	$\Omega$	IEC 60093
Comparative tracking index	-	V	IEC 60112
<b>Injection molding</b>			
Pre-drying :	120°C, 5hours or longer 140°C, 3hours or longer		
Processing moisture content :	=< 0.04%		
Resin temperature :	240~270°C		
Mold temperature :	40~80°C		

These property values are typical values obtained under varying conditions prescribed by certain standards and test methods and therefore are not the minimum values of the material specifications.