

CHANG CHUN PLASTICS CO., LTD.

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

CCP PBT/PC 6100-154 THERMOPLASTIC POLYESTER RESIN

Product Description

PBT/PC 6100-154 is an unreinforced flame retarded impact modified injection molding grade.

Characteristics

Processing	• Injection Moulding
Deliver form	• Pellets
Additives	• Flame retardant, Release agent

General information

	Value	Unit	Test Method
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Part Marking Code	>(PBT+PC)-FR(17)<		ISO 11469
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Physical properties

	Value	Unit	Test Method
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Density	1.31	g/cm ³	ISO 1183
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Viscosity Number	-	cm ³ /g	ISO 1628
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Moulding shrinkage, parallel	0.8-1.4	%	ISO 294-4, 2577
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Moulding shrinkage, normal	0.8-1.4	%	ISO 294-4, 2577
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Moisture	-	%	ISO 62
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Rheological properties

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

	Value	Unit	Test Method
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Stress at break	50	MPa	ISO 527-1/-2
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Strain at break	30	%	ISO 527-1/-2
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Tensile Modulus	1900	MPa	ISO 527-1/-2
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Flexural Strength	70	MPa	ISO 178
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Flexural Modulus	1900	MPa	ISO 178
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Charpy impact strength – notched			ISO 179/1eA
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23°C	50	kJ/m ²	
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-40°C	-	kJ/m ²	
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Charpy impact strength – unnotched			ISO 179/1eU
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23°C	N.B.	kJ/m ²	
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-40℃	-	kJ/m^2	
Thermal properties	Value	Unit	Test Method
Melting temperature, 10℃/min	225	℃	ISO 11357-1/-3
Heat deflection temperature under load			ISO 75-1/-2
1.80 Mpa	85	℃	
0.45 MPa	135	℃	
Flammability	Value	Unit	Test Method
Flammability acc. to UL94, 0.8mm thickness	V-0	-	UL 94
Glow Wire Flammability Index			IEC 60695-2-1/2
0.75mm	-	℃	
1.5mm	-	℃	
3mm	-	℃	
Glow Wire Ignition Temperature			IEC 60695-2-1/3
0.75mm	-	℃	
1.5mm	-	℃	
3mm	-	℃	
Electrical properties	Value	Unit	Test Method
Electric strength, 2mm	22	kV/mm	IEC 60243-1
Volume resistivity	10^{14}	$\Omega \cdot \text{m}$	IEC 60093
Surface resistivity	10^{12}	Ω	IEC 60093
Comparative tracking index	-	V	IEC 60112
Injection molding			
Pre-drying :	120℃, 5hours or longer 140℃, 3hours or longer		
Processing moisture content :	=< 0.04%		
Resin temperature :	240~270℃		
Mold temperature :	40~80℃		

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.