

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 6030-104LW THERMOPLASTIC POLYESTER RESIN

Product Description

6030-104LW is a 30% glass fiber reinforced, laser weldable, injection molding grade.

Characteristics

Processing • Injection Molding

Deliver form • Pellets

Additives • Release agent

Physical properties	Value	Unit	Test Method
Density	1.5	g/cm ³	ISO 1183
Molding shrinkage, parallel	0.6-1.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.1-0.5	%	ISO 294-4, 2577
Moisture	0.1	%	ISO 62
Rheological properties	Value	Unit	Test Method
Melt mass-flow rate, 270°C 2.16kg	18	g/10min	ISO 1133
Mechanical properties	Value	Unit	Test Method
Stress at break	125	MPa	ISO 527-1/-2
Strain at break	2.0	%	ISO 527-1/-2
Flexural Strength	180	MPa	ISO 178
Flexural Modulus	8000	MPa	ISO 178
Charpy impact strength – notched 23°C	9.0	kJ/m ²	ISO 179/1eA
Thermal properties	Value	Unit	Test Method
Melting temperature, 10°C/min	225	°C	ISO 11357-1/-3
Heat deflection temperature under load 1.80 Mpa	190	°C	ISO 75-1/-2
Flammability	Value	Unit	Test Method
Flammability acc. to UL94, 0.8mm thickness	HB	-	UL 94
Electrical properties	Value	Unit	Test Method

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Dielectric strength, 2mm thick	23	kV/mm	IEC 60243-1
Volume resistivity	$>10^{13}$	$\Omega \cdot m$	IEC 60093
Surface resistivity	10^{13}	Ω	IEC 60093
Injection molding			
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.