

CCP LongLite® PBT

4130 200TV

THERMOPLASTIC POLYESTER RESIN

PBT 4130 200TV is a 30% glass fiber reinforced flame retardant injection grade.

Characteristics

Processing	Injection Moulding
Deliver form	Pellets
Additives	Release agent

General Information

Part Marking Code	>PBT-GF30 FR(17)<	ISO 11469
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Physical properties	Value	Unit	Test Method
Density 23°C	1.62	g/cm ³	ISO 1183
Moulding shrinkage, parallel	0.1-0.4	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.8-1.1	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Method
Tensile Stress at Break (5mm/min)	130	MPa	ISO 527-1/-2
Tensile Strain at Break (5mm/min)	2	%	ISO 527-1/-2
Flexural Strength (2mm/min)	180	MPa	ISO 178
Flexural Modulus (2mm/min)	8000	MPa	ISO 178
Charpy impact strength – notched 23°C	8	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Method
Heat deflection temperature under load 1.8MPa	-	°C	ISO 75-1/-2
Melting Temperature 10°C/min	225	°C	ISO 11357-1/-3

Flammability	Value	Unit	Test Method
Flammability acc. to UL94, 0.4mm thickness	V-0	Class	UL 94
Flammability acc. to UL94, 1.5mm thickness	5VA	Class	UL 94

Electrical properties	Value	Unit	Test Method
Electric strength @oil,2mm	-	kV/mm	ASTM D149
Comparative Tracking Index CTI	2	PLC	UL746A
Volume resistivity	E14	Ω*m	IEC 60093
Surface resistivity	E13	Ω	IEC 60093



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Injection molding

Pre-drying:	120°C, 5hours or longer;140°C, 3hours or longer
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Processing moisture content:	=< 0.04%
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Resin temperature:	240~270°C
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Mold temperature:	40~80°C
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