

CCP LongLite® PBT

5829F NCS

THERMOPLASTIC POLYESTER RESIN

PBT 5829F NCS is a glass fiber reinforced and flame retardant injection-molding grade PBT. (Halogen and Antimony free)

Characteristics

Processing	Injection Moulding
Deliver form	Pellets
Additives	Glass fiber, Flame retardant,Modifier

General Information

Part Marking Code	ISO 11469
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Physical properties	Value	Unit	Test Method
Density 23°C	1.55	g/cm ³	ISO 1183
Moisture	0.2	%	ISO 62
Moulding shrinkage, parallel	0.2-0.5	%	ISO 294-4, 2577
Moulding shrinkage, normal	0.8-1.2	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Method
Tensile Strength (5mm/min)	125	MPa	ISO 527-1/-2
Tensile Strain at Break (5mm/min)	2.5	%	ISO 527-1/-2
Flexural Strength (2mm/min)	190	MPa	ISO 178
Flexural Modulus (2mm/min)	8700	MPa	ISO 178
Charpy impact strength - notched 23°C	11	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Method
Melting Temperature 10°C/min	225	°C	ISO 11357-1/-3

Flammability	Value	Unit	Test Method
Flammability acc. to UL94, 3.0mm thickness	V-0	Class	UL 94

Electrical properties	Value	Unit	Test Method
Volume resistivity	>E13	Ω*m	IEC 60093
Surface resistivity	E13	Ω	IEC 60093

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Electrical properties	Value	Unit	Test Method
Injection molding			
Pre-drying:	105°C, 8hours or longer; 120°C, 4hours or longer ;140°C, 3hours or longer		
Processing moisture content:	=< 0.04%		
Resin temperature:	240~270°C		
Mold temperature:	40~80°C		

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