

CCP LongLite® PBT Resin

1100-211M

THERMOPLASTIC POLYESTER RESIN

PBT Resin 1100-211M is an unreinforced injection molding grade.

Characteristics

Processing	Injection Molding
Deliver form	Pellets
Additives	None

General Information

Part Marking Code	>PBT<	ISO 11469
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Physical properties	Value	Unit	Test Method
Intrinsic Viscosity	1.00±0.015	dl/gr	ISO1628
Carboxyl End Groups	≤30	meq/kg	CCP Titration
Color L*	≥85	NA	CIE Method
Color b*	≤2	NA	CIE Method
Density 23°C	1.31	g/cm ³	ISO 1183

Rheological properties	Value	Unit	Test Method
Melt Mass-Flow Rate, 250°C 2.16Kg	29.5	g/10 min	ISO 1133

Mechanical properties	Value	Unit	Test Method
Tensile Stress at Break (50mm/min)	50	MPa	ISO 527-1/-2
Tensile Strain at Break (50mm/min)	>40	%	ISO 527-1/-2
Flexural Strength (2mm/min)	85	MPa	ISO 178
Flexural Modulus (2mm/min)	2300	MPa	ISO 178
Charpy impact strength – notched 23°C	5	kJ/m ²	ISO 179/1eA

Thermal properties	Value	Unit	Test Method
Heat deflection temperature under load			
1.8MPa, unannealed	50	°C	ISO 75-1/-2
0.45MPa, unannealed	120	°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, 0.8mm thickness	HB	Class	UL 94

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Electrical properties	Value	Unit	Test Method
Electric strength @oil,2mm	20	kV/mm	ASTM D149
Volume resistivity	10^{15}	$\Omega \cdot m$	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



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