

MARCOBLEND 5100 BK

Polycarbonate

POLY GIN

Message:

MARCOBLEND 5100 BK is a high gloss polycarbonate resin. The resin is Halogen free and compliance with TCO and RoHS certification. The unique characters include superior processability, good stiffness, and excellent dimension stability and suitable for use in TFT LCD frame and internal structure parts.

General Information			
Features	Good Dimensional Stability		
	Good Processability		
	Good Stiffness		
	Halogen Free		
	High Gloss		
RoHS Compliance	RoHS Compliant		
Appearance	Black		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	22	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	65.4	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	2300	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	740	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	122	°C	ASTM D648
Flammability	Nominal Value		Test Method
Flame Rating	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 to 4.0	hr	
Rear Temperature	260 to 265	°C	
Middle Temperature	265 to 270	°C	
Front Temperature	270 to 275	°C	
Nozzle Temperature	275 to 280	°C	

Mold Temperature	80.0 to 120	°C
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