

LNP™ STAT-KON™ DD200C compound

Polycarbonate

SABIC Innovative Plastics Asia Pacific

Message:

PTFE free polycarbonate compounds with ESD safety and good lubricating performance, suitable for Semiconductor and Hard Disk Drive (HDD) and semicon industry. Added features of this material include: Good cleanliness control, low LPC, low ionic, and low outgassing.

General Information			
UL YellowCard	E207780-101260651		
Features	ESD Protection		
	Low (to None) Ion Content		
	Low to No Outgassing		
Uses	Semiconductor Molding Compounds		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.22	g/cm ³	ASTM D792
--	1.20	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Flow	0.50 to 0.70	%	
Across Flow	0.50 to 0.70	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	2410	MPa	ASTM D638
--	2350	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	53.0	MPa	ASTM D638
Yield	53.0	MPa	ISO 527-2/5
Break ³	46.0	MPa	ASTM D638
Break	53.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	5.3	%	ASTM D638
Yield	5.2	%	ISO 527-2/5
Break ⁵	10	%	ASTM D638
Break	10	%	ISO 527-2/5
Flexural Modulus			
--	2200	MPa	ASTM D790
-- ⁶	2390	MPa	ISO 178
Flexural Strength			

--	87.0	MPa	ASTM D790
--	87.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷ (23°C)	9.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	92	kJ/m ²	ISO 179/2U
Notched Izod Impact			
23°C	120	J/m	ASTM D256
23°C ⁸	10	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1800	J/m	ASTM D4812
23°C ⁹	90	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	138	°C	
1.8 MPa, Unannealed, 3.20 mm	125	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 to 1.0E+9	ohms	ASTM D257
Static Decay ¹⁰	0.1	sec	FTMS 101B
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	293 to 304	°C	
Middle Temperature	310 to 321	°C	
Front Temperature	321 to 332	°C	
Processing (Melt) Temp	304 to 327	°C	
Mold Temperature	82.2 to 110	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		
5.	Type I, 5.0 mm/min		
6.	2.0 mm/min		
7.	80*10*4 sp=62mm		
8.	80*10*4		
9.	80*10*4		
10.	5000V to <50V		

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