



LNP™ STAT-KON™ Compound DD200C

Asia Pacific: COMMERCIAL

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	540	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	460	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	5.3	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	10	%	ASTM D 638
Tensile Modulus, 5 mm/min	24500	kgf/cm ²	ASTM D 638
Flexural Stress	880	kgf/cm ²	ASTM D 790
Flexural Modulus	22400	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	53	MPa	ISO 527
Tensile Stress, break, 5 mm/min	53	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	5.2	%	ISO 527
Tensile Strain, break, 5 mm/min	10	%	ISO 527
Tensile Modulus, 1 mm/min	2340	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	87	MPa	ISO 178
Flexural Modulus, 2 mm/min	2380	MPa	ISO 178
IMPACT			
Charpy Impact, unnotched, 23°C	92	kJ/m ²	ISO 179/2C
Izod Impact, unnotched, 23°C	183	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	11	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	90	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	10	kJ/m ²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	9	kJ/m ²	ISO 179/1eA
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	138	°C	ASTM D 648



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	125	°C	ASTM D 648
PHYSICAL			
Specific Gravity	1.22	-	ASTM D 792
Mold Shrinkage, flow (5)	0.5 - 0.7	%	SABIC Method
Mold Shrinkage, xflow (5)	0.5 - 0.7	%	SABIC Method
Density	1.2	g/cm ³	ISO 1183
ELECTRICAL			
Surface Resistivity	1.E+05 - 1.E+09	Ohm	ASTM D 257
Static Decay, 5000V to <50V	0.1	< seconds	FTMS101B



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	305 - 325	°C
Front - Zone 3 Temperature	320 - 330	°C
Middle - Zone 2 Temperature	310 - 320	°C
Rear - Zone 1 Temperature	295 - 305	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm