



LNP™ STAT-KON™ Compound DDF029

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound DF-FR

Product reorder name: DDF029

LNP STAT-KON™ DDF029 is a compound based on Polycarbonate resin containing Carbon, Glass Fiber. Added features of this material include: Electrically Conductive. Flame Retardant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	830	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.9	%	ASTM D 638
Tensile Modulus, 50 mm/min	45600	kgf/cm ²	ASTM D 638
Flexural Stress	1350	kgf/cm ²	ASTM D 790
Flexural Modulus	44900	kgf/cm ²	ASTM D 790
Tensile Stress, break	81	MPa	ISO 527
Tensile Strain, break	2.8	%	ISO 527
Tensile Modulus, 1 mm/min	4600	MPa	ISO 527
Flexural Stress	134	MPa	ISO 178
Flexural Modulus	4800	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	45	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	5	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	74	cm-kgf	ASTM D 3763
Multiaxial Impact	23	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	32	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	6	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	141	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	135	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.32E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	5.04E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.43E-05	1/°C	ISO 11359-2



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THERMAL			
CTE, -40°C to 40°C, xflow	5.19E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	135	°C	ISO 75/Af
PHYSICAL			
Density	1.37	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.11	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.44	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.49	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.2	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+05 - 1.E+10	Ohm	ASTM D 257
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	1.8	mm	UL 94 by SABIC-IP



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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