



LNP™ STAT-KON™ Compound DX05499

Americas: COMMERCIAL

Also known as: LNP™ STAT-KON™ Compound DX-7

Product reorder name: DX05499

LNP STAT-KON™ DX05499 is a compound based on Polycarbonate resin containing Carbon Powder. Added features of this material include: Electrically Conductive, Flame Retardant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yield	690	kgf/cm ²	ASTM D 638
Tensile Stress, break	610	kgf/cm ²	ASTM D 638
Tensile Strain, yield	4.6	%	ASTM D 638
Tensile Strain, break	8.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	28100	kgf/cm ²	ASTM D 638
Flexural Stress	1030	kgf/cm ²	ASTM D 790
Flexural Modulus	32900	kgf/cm ²	ASTM D 790
Tensile Stress, yield	64	MPa	ISO 527
Tensile Stress, break	53	MPa	ISO 527
Tensile Strain, yield	4.3	%	ISO 527
Tensile Strain, break	12.6	%	ISO 527
Tensile Modulus, 1 mm/min	2800	MPa	ISO 527
Flexural Stress	108	MPa	ISO 178
Flexural Modulus	3100	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	240	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	9	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	255	cm-kgf	ASTM D 3763
Multiaxial Impact	348	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	137	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	132	°C	ASTM D 648



LNP™ STAT-KON™ Compound DX05499

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	120	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	122	°C	ISO 75/Af
PHYSICAL			
Density	1.34	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.11	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.6	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.64	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.66	%	ISO 294
Moisture Absorption (23°C / 50% RH)	0.19	%	ISO 62
ELECTRICAL			
Surface Resistivity	1.E+05 - 1.E+09	Ohm	ASTM D 257
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	0.5	mm	UL 94 by SABIC-IP



LNP™ STAT-KON™ Compound DX05499

Americas: COMMERCIAL

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