LNP™ STAT-KON™ COMPOUND DX13301C

DESCRIPTION

LNP STAT-KON DX13301C compound is based on Polycarbonate (PC) resin containing proprietary fillers. Added features of this grade include: Electrically Conductive, LNP Clean Compounding Technology.

TYPICAL PROPERTY VALUES

Revision 20231109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL [1]			
Tensile Modulus, 5 mm/min	3000	MPa	ASTM D638
Tensile Stress, yld, Type I, 5 mm/min	64	MPa	ASTM D638
Tensile Stress, brk, Type I, 5 mm/min	54	MPa	ASTM D638
Tensile Strain, yld, Type I, 5 mm/min	4.9	%	ASTM D638
Tensile Strain, brk, Type I, 5 mm/min	20	%	ASTM D638
Tensile Modulus, 1 mm/min	2910	MPa	ISO 527
Tensile Stress, yield, 5 mm/min	63	MPa	ISO 527
Tensile Stress, break, 5 mm/min	54	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	4.9	%	ISO 527
Tensile Strain, break, 5 mm/min	20	%	ISO 527
Flexural modulus	2890	MPa	ASTM D790
Flexural Modulus	2770	MPa	ISO 178
Flexural Stress	100	MPa	ISO 178
IMPACT [1]			
Izod Impact, notched, 23°C	61	J/m	ASTM D256
Izod Impact, unnotched, 23°C	NB	J/m	ASTM D4812
Instrumented Dart Impact Total Energy, 23°C	41	J	ASTM D3763
Izod Impact, notched 80*10*4 +23°C	7.5	kJ/m²	ISO 180/1A
Izod Impact, unnotched 80*10*4 +23°C	NB	kJ/m²	ISO 180/1U
Multiaxial Impact	38	J	ISO 6603
THERMAL [1]			
HDT, 1.8 MPa, 3.2mm, unannealed	133	°C	ASTM D648
HDT, 0.45 MPa, 3.2 mm, unannealed	142	°C	ASTM D648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	131	°C	ISO 75/Af
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	142	°C	ISO 75/Bf
CTE, -30°C to 30°C, flow	6.2E-05	1/°C	ASTM E831
CTE, -30°C to 30°C, xflow	6.3E-05	1/°C	ASTM E831
PHYSICAL [1]			
Specific Gravity	1.25	-	ASTM D792
Density	1.25	g/cm³	ASTM D792
Mold Shrinkage, flow, 24 hrs [2]	0.74	%	ASTM D955
Mold Shrinkage, xflow, 24 hrs [2]	0.85	%	ASTM D955
Moisture Absorption, (23°C/50% RH/24 hrs)	0.15	%	ASTM D570
Moisture Absorption (23°C / 50% RH)	0.23	%	ISO 62
ELECTRICAL [1]			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Surface Resistivity [3]	1.0E02 – 1.0E06	Ω	ASTM D257
INJECTION MOLDING [4]			
Drying Temperature	121	°C	
Drying Time	4	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	304 – 326	°C	
Front - Zone 3 Temperature	321 – 332	°C	
Middle - Zone 2 Temperature	310 – 321	°C	
Rear - Zone 1 Temperature	293 – 304	°C	
Mold Temperature	82 – 110	°C	
Back Pressure	0.17 – 0.34	MPa	
Screw Speed	30 – 60	rpm	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

(3) Measurement meets requirements as specified in ASTM D4496.

(4) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

DISCLAIMER