

LNP* Stat-kon* Compound MX01739C

Americas: COMMERCIAL

Also known as: STAT-KON PDX-M-01739 CCS
Product Reorder Name: MX01739C

LNP* Stat-Kon* MX01739C is a compound based on Polypropylene containing Proprietary Fillers. Characteristics of this grade are: Statically Conductive, Clean Compound System.

Property

TYPICAL PROPERTIES ⁽¹⁾			
	Value	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	28	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	0.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	6930	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	41	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	5580	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	25	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	0.9	%	ISO 527
Tensile Modulus, 1 mm/min	5240	MPa	ISO 527
Flexural Stress	40	MPa	ISO 178
Flexural Modulus, 2 mm/min	5590	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	68	J/m	ASTM D 4812
Izod Impact, notched, 23°C	34	J/m	ASTM D 256
Multiaxial Impact	4	J	ISO 6603
Instrumented Impact Total Energy, 23°C	15	J	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	8	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	2	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	134	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	94	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.7E+01	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	7.74E+01	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	125	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	83	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.04	-	ASTM D 792
Density	1.03	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.02	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.6 - 0.9	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 4	%	ASTM D 955
Moisture Absorption (23°C / 50% RH)	0.02	%	ISO 62
ELECTRICAL			
Surface Resistivity	4.E+00 - 7.E+00	Ohm	ASTM D 257

Source GMD, last updated:2009/09/02

Processing

Parameter	Value	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Melt Temperature	225 - 250	°C
Front - Zone 3 Temperature	240 - 250	°C
Middle - Zone 2 Temperature	215 - 225	°C
Rear - Zone 1 Temperature	195 - 205	°C
Mold Temperature	30 - 50	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm

Source GMD, last updated:2009/09/02

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR [\(LOCAL SALES OFFICE\)](#) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

(5) 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.

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