

# LNPT<sup>™</sup> STAT-KON<sup>™</sup> COMPOUND DSL229

DS-L

## DESCRIPTION

LNP STAT-KON DSL229 compound is based on Polycarbonate (PC) resin containing 10% PTFE, 10% stainless steel fiber. Added features of this grade include: Electrically Conductive, Wear Resistant, Flame Retardant.

### GENERAL INFORMATION

|                       |                                                          |
|-----------------------|----------------------------------------------------------|
| Features              | Flame Retardant, Electrically Conductive, Wear resistant |
| Fillers               | Stainless Steel Fiber, PTFE                              |
| Polymer Types         | Polycarbonate (PC)                                       |
| Processing Techniques | Injection Molding                                        |

### INDUSTRY

Consumer  
Electrical and Electronics  
Industrial  
Packaging

### SUB INDUSTRY

Commercial Appliance  
Electronic Components  
Electrical, Material Handling  
Industrial Packaging

## TYPICAL PROPERTY VALUES

Revision 20231109

| PROPERTIES                                          | TYPICAL VALUES  | UNITS             | TEST METHODS |
|-----------------------------------------------------|-----------------|-------------------|--------------|
| <b>MECHANICAL <sup>(1)</sup></b>                    |                 |                   |              |
| Tensile Stress, break                               | 46              | MPa               | ASTM D638    |
| Tensile Strain, break                               | 4.6             | %                 | ASTM D638    |
| Tensile Modulus, 50 mm/min                          | 2450            | MPa               | ASTM D638    |
| Flexural Stress                                     | 75              | MPa               | ASTM D790    |
| Flexural Modulus                                    | 2570            | MPa               | ASTM D790    |
| <b>IMPACT <sup>(1)</sup></b>                        |                 |                   |              |
| Izod Impact, unnotched, 23°C                        | 593             | J/m               | ASTM D4812   |
| Izod Impact, notched, 23°C                          | 64              | J/m               | ASTM D256    |
| <b>THERMAL <sup>(1)</sup></b>                       |                 |                   |              |
| HDT, 1.82 MPa, 3.2mm, unannealed                    | 120             | °C                | ASTM D648    |
| Relative Temp Index, Elec <sup>(2)</sup>            | 80              | °C                | UL 746B      |
| Relative Temp Index, Mech w/impact <sup>(2)</sup>   | 80              | °C                | UL 746B      |
| Relative Temp Index, Mech w/o impact <sup>(2)</sup> | 80              | °C                | UL 746B      |
| <b>PHYSICAL <sup>(1)</sup></b>                      |                 |                   |              |
| Density                                             | 1.39            | g/cm <sup>3</sup> | ASTM D792    |
| Mold Shrinkage, flow, 24 hrs <sup>(3)</sup>         | 0.5             | %                 | ASTM D955    |
| <b>ELECTRICAL <sup>(1)</sup></b>                    |                 |                   |              |
| Surface Resistivity <sup>(4)</sup>                  | 1.E+01 – 1.E+06 | Ω                 | ASTM D257    |
| Surface Resistivity, ROA                            | 1.E+01 – 1.E+06 | Ω                 | IEC 60093    |

| PROPERTIES                                  | TYPICAL VALUES                    | UNITS | TEST METHODS |
|---------------------------------------------|-----------------------------------|-------|--------------|
| <b>FLAME CHARACTERISTICS <sup>(2)</sup></b> |                                   |       |              |
| UL Yellow Card Link                         | <a href="#">E121562-101357497</a> | -     | -            |
| UL Recognized, 94V-0 Flame Class Rating     | 1.5                               | mm    | UL 94        |
| <b>INJECTION MOLDING <sup>(5)</sup></b>     |                                   |       |              |
| 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   |              |

(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) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(3) 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.

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

(5) 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.

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