

# LNP™ STAT-LOY™ KX09024 compound

Acetal (POM) Copolymer  
SABIC Innovative Plastics Europe

Message:

LNP STAT-LOY KX09024 is a compound based on Polyacetal with reduced Resistivity. Added features include: Antistatic Properties  
Also known as: LNP\* STAT-LOY\* Compound KX09024  
Product reorder name: KX09024

| General Information                              |                   |                   |                 |
|--------------------------------------------------|-------------------|-------------------|-----------------|
| Additive                                         | Antistatic        |                   |                 |
| Features                                         | Antistatic        |                   |                 |
| RoHS Compliance                                  | RoHS Compliant    |                   |                 |
| Processing Method                                | Injection Molding |                   |                 |
| Physical                                         | Nominal Value     | Unit              | Test Method     |
| Density                                          | 1.27              | g/cm <sup>3</sup> | ISO 1183        |
| Molding Shrinkage - Flow                         | 2.8               | %                 | Internal Method |
| Mechanical                                       | Nominal Value     | Unit              | Test Method     |
| Tensile Modulus                                  | 1000              | MPa               | ISO 527-2/1     |
| Tensile Strain (Break)                           | 12                | %                 | ISO 527-2/5     |
| Flexural Modulus <sup>1</sup>                    | 1400              | MPa               | ISO 178         |
| Flexural Stress                                  | 48.0              | MPa               | ISO 178         |
| Impact                                           | Nominal Value     | Unit              | Test Method     |
| Notched Izod Impact Strength <sup>2</sup> (23°C) | 9.0               | kJ/m <sup>2</sup> | ISO 180/1A      |
| Thermal                                          | Nominal Value     | Unit              | Test Method     |
| Heat Deflection Temperature <sup>3</sup>         |                   |                   |                 |
| 0.45 MPa, Unannealed, 64.0 mm Span               | 136               | °C                | ISO 75-2/Bf     |
| 1.8 MPa, Unannealed, 64.0 mm Span                | 67.0              | °C                | ISO 75-2/Af     |
| CLTE                                             |                   |                   | ISO 11359-2     |
| Flow : 23 to 60°C                                | 1.4E-4            | cm/cm/°C          |                 |
| Transverse : 23 to 60°C                          | 1.6E-4            | cm/cm/°C          |                 |
| Electrical                                       | Nominal Value     | Unit              | Test Method     |
| Surface Resistivity                              | 1.0E+8 to 1.0E+10 | ohms              | ASTM D257       |
| Volume Resistivity                               | 1.0E+8 to 1.0E+10 | ohms · cm         | ASTM D257       |
| Injection                                        | Nominal Value     | Unit              |                 |
| Drying Temperature                               | 82.2              | °C                |                 |
| Drying Time                                      | 4.0               | hr                |                 |
| Rear Temperature                                 | 177 to 188        | °C                |                 |
| Middle Temperature                               | 188 to 199        | °C                |                 |
| Front Temperature                                | 199 to 210        | °C                |                 |
| Processing (Melt) Temp                           | 193 to 204        | °C                |                 |
| Mold Temperature                                 | 71.1 to 93.3      | °C                |                 |

|               |                |     |
|---------------|----------------|-----|
| Back Pressure | 0.172 to 0.344 | MPa |
| Screw Speed   | 30 to 60       | rpm |
| NOTE          |                |     |
| 1.            | 2.0 mm/min     |     |
| 2.            | 80*10*4        |     |
| 3.            | 80*10*4 mm     |     |

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