

# RTP 227 SI 2 Z

Polyamide 66

RTP Company

Message:

Mineral - Silicone Lubricated - FDA Compliant Ingredients

| General Information                                        |                                      |                   |             |
|------------------------------------------------------------|--------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Mineral filler, 40% filler by weight |                   |             |
| Additive                                                   | Silicone lubricant (2%)              |                   |             |
| Features                                                   | Lubrication                          |                   |             |
| RoHS Compliance                                            | Contact manufacturer                 |                   |             |
| Processing Method                                          | Injection molding                    |                   |             |
| Physical                                                   | Nominal Value                        | Unit              | Test Method |
| Specific Gravity                                           | 1.50                                 | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 0.70 - 1.2                           | %                 | ASTM D955   |
| Moisture Content                                           | 0.20                                 | %                 |             |
| Primary Additive                                           | 40                                   | %                 |             |
| Mechanical                                                 | Nominal Value                        | Unit              | Test Method |
| Tensile Modulus                                            | 7930                                 | MPa               | ASTM D638   |
| Tensile Strength                                           | 72.4                                 | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | 2.0 - 3.0                            | %                 | ASTM D638   |
| Flexural Modulus                                           | 7240                                 | MPa               | ASTM D790   |
| Flexural Strength                                          | 121                                  | MPa               | ASTM D790   |
| Impact                                                     | Nominal Value                        | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                              | 37                                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                            | 290                                  | J/m               | ASTM D4812  |
| Thermal                                                    | Nominal Value                        | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)    | 204                                  | °C                | ASTM D648   |
| Flammability                                               | Nominal Value                        |                   | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | HB                                   |                   | UL 94       |
| Injection                                                  | Nominal Value                        | Unit              |             |
| Drying Temperature                                         | 79.4                                 | °C                |             |
| Drying Time                                                | 4.0                                  | hr                |             |
| Dew Point                                                  | -17.8                                | °C                |             |
| Processing (Melt) Temp                                     | 277 - 299                            | °C                |             |
| Mold Temperature                                           | 65.6 - 107                           | °C                |             |
| Injection Pressure                                         | 68.9 - 124                           | MPa               |             |
| Injection instructions                                     |                                      |                   |             |

Desiccant Type Dryer Required.

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

