

# RTP 2181 HF TFE 15

Polyether Imide

RTP Company

Message:

Carbon Fiber - PTFE Lubricated

| General Information                                        |                                                        |                   |             |
|------------------------------------------------------------|--------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Carbon fiber reinforced material, 10% filler by weight |                   |             |
| Additive                                                   | PTFE lubricant (15%)                                   |                   |             |
| Features                                                   | Lubrication                                            |                   |             |
| RoHS Compliance                                            | Contact manufacturer                                   |                   |             |
| Processing Method                                          | Injection molding                                      |                   |             |
| Physical                                                   | Nominal Value                                          | Unit              | Test Method |
| Specific Gravity                                           | 1.40                                                   | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 0.050 - 0.10                                           | %                 | ASTM D955   |
| Moisture Content                                           | 0.040                                                  | %                 |             |
| Primary Additive                                           | 10                                                     | %                 |             |
| Mechanical                                                 | Nominal Value                                          | Unit              | Test Method |
| Tensile Modulus                                            | 9310                                                   | MPa               | ASTM D638   |
| Tensile Strength                                           | 138                                                    | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | 1.0 - 2.0                                              | %                 | ASTM D638   |
| Impact                                                     | Nominal Value                                          | Unit              | Test Method |
| Notched Izod Impact (3.20 mm)                              | 53                                                     | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.20 mm)                            | 430                                                    | J/m               | ASTM D4812  |
| Flammability                                               | Nominal Value                                          | Test Method       |             |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | V-0                                                    | UL 94             |             |
| Injection                                                  | Nominal Value                                          | Unit              |             |
| Drying Temperature                                         | 149                                                    | °C                |             |
| Drying Time                                                | 4.0                                                    | hr                |             |
| Dew Point                                                  | -28.9                                                  | °C                |             |
| Processing (Melt) Temp                                     | 354 - 399                                              | °C                |             |
| Mold Temperature                                           | 135 - 177                                              | °C                |             |
| Injection Pressure                                         | 82.7 - 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

