

# RTP 2285 LF TFE 15 Z

Polyetheretherketone

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'  
The data for this material has not been recently verified.  
Please contact RTP Company for current information prior to specifying this grade.  
FDA Compliant Ingredients

| General Information                                     |                                                        |                   |             |
|---------------------------------------------------------|--------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                  | Carbon fiber reinforced material, 30% 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                                        | 1.49                                                   | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)                      | 0.050 - 0.20                                           | %                 | ASTM D955   |
| Mechanical                                              | Nominal Value                                          | Unit              | Test Method |
| Tensile Modulus                                         | 21400                                                  | MPa               | ASTM D638   |
| Tensile Strength                                        | 197                                                    | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                              | 1.0 - 1.5                                              | %                 | ASTM D638   |
| Flexural Modulus                                        | 20000                                                  | MPa               | ASTM D790   |
| Flexural Strength                                       | 310                                                    | MPa               | ASTM D790   |
| Impact                                                  | Nominal Value                                          | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)                           | 69                                                     | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)                         | 690                                                    | J/m               | ASTM D4812  |
| Thermal                                                 | Nominal Value                                          | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | > 288                                                  | °C                | ASTM D648   |
| Electrical                                              | Nominal Value                                          | Unit              | Test Method |
| Volume Resistivity                                      | < 1.0E+4                                               | ohms · cm         | ASTM D257   |
| Flammability                                            | Nominal Value                                          | Unit              | Test Method |
| Flame Rating (1.50 mm, Values per RTP Company testing.) | V-0                                                    |                   | UL 94       |
| Injection                                               | Nominal Value                                          | Unit              |             |
| Drying Temperature - Desiccant Dryer                    | 149                                                    | °C                |             |
| Drying Time - Desiccant Dryer                           | 3.0                                                    | hr                |             |
| Dew Point - Desiccant Dryer                             | -28.9                                                  | °C                |             |
| Suggested Max Moisture                                  | 0.10                                                   | %                 |             |
| Processing (Melt) Temp                                  | 349 - 399                                              | °C                |             |
| Mold Temperature                                        | 163 - 218                                              | °C                |             |

|                        |            |     |
|------------------------|------------|-----|
| Injection Pressure     | 82.7 - 124 | MPa |
| Injection instructions |            |     |

Desiccant Type Dryer Required.

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Recommended distributors for this material

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