

# RTP 100 AR 15

Polypropylene  
RTP Company

Message:  
Aramid Fiber

| General Information                                        |                                   |                   |             |
|------------------------------------------------------------|-----------------------------------|-------------------|-------------|
| Filler / Reinforcement                                     | Aramid Fiber,15% Filler by Weight |                   |             |
| RoHS Compliance                                            | Contact Manufacturer              |                   |             |
| Processing Method                                          | Injection Molding                 |                   |             |
| Physical                                                   | Nominal Value                     | Unit              | Test Method |
| Specific Gravity                                           | 0.960                             | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.20 mm)                         | 1.2                               | %                 | ASTM D955   |
| Mechanical                                                 | Nominal Value                     | Unit              | Test Method |
| Tensile Modulus                                            | 3100                              | MPa               | ASTM D638   |
| Tensile Strength                                           | 34.5                              | MPa               | ASTM D638   |
| Tensile Elongation (Yield)                                 | 5.0 to 8.0                        | %                 | ASTM D638   |
| Flexural Modulus                                           | 2760                              | MPa               | ASTM D790   |
| Flexural Strength                                          | 55.2                              | MPa               | ASTM D790   |
| 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  |
| Thermal                                                    | Nominal Value                     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed)    | 79.4                              | °C                | ASTM D648   |
| Flammability                                               | Nominal Value                     |                   | Test Method |
| Flame Rating (1.50 mm, ** Values per RTP Company testing.) | HB                                |                   | UL 94       |
| Additional Information                                     | Nominal Value                     | Unit              |             |
| Primary Additive                                           | 15                                | %                 |             |
| Injection                                                  | Nominal Value                     | Unit              |             |
| Drying Temperature                                         | 79.4                              | °C                |             |
| Drying Time                                                | 2.0                               | hr                |             |
| Processing (Melt) Temp                                     | 191 to 232                        | °C                |             |
| Mold Temperature                                           | 32.2 to 65.6                      | °C                |             |
| Injection Pressure                                         | 68.9 to 103                       | MPa               |             |

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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

