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## Product Data Sheet & General Processing Conditions

### RTP 105 CC FR A Polypropylene (PP) Glass Fiber Reinforced Flame Retardant



#### PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

| PERMANENCE                                   | English      | SI Metric | ASTM TEST |
|----------------------------------------------|--------------|-----------|-----------|
| Primary Additive                             | 30 %         | 30 %      |           |
| Specific Gravity                             | 1.53         | 1.53      | D 792     |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0020 in/in | 0.20 %    | D 955     |

#### MECHANICAL

|                                                          |                            |             |        |
|----------------------------------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 2.0 ft-lbs/in              | 107 J/m     | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 11.0 ft-lbs/in             | 587 J/m     | D 4812 |
| Tensile Strength                                         | 11000 psi                  | 76 MPa      | D 638  |
| Tensile Elongation                                       | 3.0 - 4.0 %                | 3.0 - 4.0 % | D 638  |
| Tensile Modulus                                          | 1.10 x 10 <sup>6</sup> psi | 7584 MPa    | D 638  |
| Flexural Strength                                        | 19500 psi                  | 134 MPa     | D 790  |
| Flexural Modulus                                         | 1.10 x 10 <sup>6</sup> psi | 7584 MPa    | D 790  |

#### THERMAL

|                                                |                  |                 |                |
|------------------------------------------------|------------------|-----------------|----------------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 300 °F           | 149 °C          | D 648          |
| @ 66 psi (455 kPa)                             | 315 °F           | 157 °C          | D 648          |
| Ignition Resistance*                           |                  |                 |                |
| Flammability                                   | V-0 @ 0.017 in   | V-0 @ 0.4 mm    | UL94           |
| Glow Wire Ignitability Temperature             | 775 °C @ 1/32 in | 775 °C @ 0.8 mm | IEC 60695-2-13 |
| Glow Wire Flammability Index                   | 960 °C @ 1/32 in | 960 °C @ 0.8 mm | IEC 60695-2-12 |

#### PROPERTY NOTES

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

\* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

#### GENERAL PROCESSING FOR INJECTION MOLDING

|                    | English           | SI Metric     |
|--------------------|-------------------|---------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa  |
| Melt Temperature   | 375 - 450 °F      | 191 - 232 °C  |
| Mold Temperature   | 90 - 150 °F       | 32 - 66 °C    |
| Drying             | 2 hrs @ 175 °F    | 2 hrs @ 79 °C |