

# RIALFILL C 15 S 15 C3

Polypropylene Copolymer

RIALTI Srl

Message:

Polypropylene copolymer copound, 15% filled with calcium carbonate, base thermal stabilization.  
High flowability rate for injection molding.  
Available in versions natural and colored as per sample.

| General Information                         |                                        |                   |              |
|---------------------------------------------|----------------------------------------|-------------------|--------------|
| Filler / Reinforcement                      | Calcium Carbonate,15% Filler by Weight |                   |              |
| Features                                    | Copolymer                              |                   |              |
|                                             | Good Thermal Stability                 |                   |              |
|                                             | High Flow                              |                   |              |
| Appearance                                  | Colors Available                       |                   |              |
|                                             | Natural Color                          |                   |              |
| Forms                                       | Pellets                                |                   |              |
| Processing Method                           | Injection Molding                      |                   |              |
| Physical                                    | Nominal Value                          | Unit              | Test Method  |
| Density                                     | 0.990                                  | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)   | 18                                     | g/10 min          | ISO 1133     |
| Molding Shrinkage                           |                                        |                   | ISO 294-4    |
| Across Flow                                 | 1.3                                    | %                 |              |
| Flow                                        | 1.3                                    | %                 |              |
| Water Absorption <sup>1</sup> (23°C, 24 hr) | 0.020                                  | %                 | ISO 62       |
| Acetaldehyde (150°C)                        | 6.3                                    | day               | ISO 4577     |
| Ash Content                                 | 15                                     | %                 | ISO 3451     |
| Hardness                                    | Nominal Value                          | Unit              | Test Method  |
| Shore Hardness (Shore D, 15 sec)            | 69                                     |                   | ISO 868      |
| Mechanical                                  | Nominal Value                          | Unit              | Test Method  |
| Tensile Stress                              |                                        |                   | ISO 527-2/20 |
| Yield, 23°C                                 | 15.0                                   | MPa               |              |
| Break, 23°C                                 | 20.0                                   | MPa               |              |
| Tensile Strain                              |                                        |                   | ISO 527-2/20 |
| Yield, 23°C                                 | 6.0                                    | %                 |              |
| Break, 23°C                                 | 350                                    | %                 |              |
| Flexural Modulus <sup>2</sup> (23°C)        | 1300                                   | MPa               | ISO 178      |
| Flexural Stress (23°C)                      | 28.0                                   | MPa               | ISO 178      |
| Impact                                      | Nominal Value                          | Unit              | Test Method  |

| Charpy Unnotched Impact Strength (23°C) | 100           | kJ/m <sup>2</sup> | ISO 179/1eU |
|-----------------------------------------|---------------|-------------------|-------------|
| Notched Izod Impact Strength            |               |                   | ISO 180/1A  |
| -20°C                                   | 4.0           | kJ/m <sup>2</sup> |             |
| 23°C                                    | 9.5           | kJ/m <sup>2</sup> |             |
| Thermal                                 | Nominal Value | Unit              | Test Method |
| Heat Deflection Temperature             |               |                   |             |
| 0.45 MPa, Unannealed                    | 80.0          | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed                     | 50.0          | °C                | ISO 75-2/A  |
| Vicat Softening Temperature             |               |                   |             |
| --                                      | 144           | °C                | ISO 306/A50 |
| --                                      | 65.0          | °C                | ISO 306/B50 |
| Ball Pressure Test                      | Pass          |                   | IEC 335     |
| CLTE - Flow                             | 9.0E-5        | cm/cm/°C          | ISO 11359-2 |
| Flammability                            | Nominal Value |                   | Test Method |
| Flame Rating (1.50 mm)                  | HB            |                   | UL 94       |
| Injection                               | Nominal Value | Unit              |             |
| Drying Temperature                      | 80.0 to 90.0  | °C                |             |
| Drying Time                             | 3.0           | hr                |             |
| Processing (Melt) Temp                  | 185 to 200    | °C                |             |
| Mold Temperature                        | 30.0 to 50.0  | °C                |             |
| NOTE                                    |               |                   |             |
| 1.                                      | 50%RH         |                   |             |
| 2.                                      | 2.0 mm/min    |                   |             |

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