

# INNOPOL® PP CS 1-1120 EP

Polypropylene Homopolymer

Inno-Comp Ltd.

## Message:

INNOPOL® CS 1-1120 EP is a 20 % talc-filled polypropylene homopolymer compound /PP-H TD20 (ISO 1043)/. This grade is available in nature and custom coloured form.

Recommended application

INNOPOL® CS 1-1120 EP is developed for producing injection moulded components for automotive industry.

| General Information                       |                                   |                   |              |
|-------------------------------------------|-----------------------------------|-------------------|--------------|
| Filler / Reinforcement                    | Talc filler, 20% filler by weight |                   |              |
| Features                                  | Homopolymer                       |                   |              |
| Appearance                                | Available colors                  |                   |              |
|                                           | Natural color                     |                   |              |
| Forms                                     | Particle                          |                   |              |
| Processing Method                         | Injection molding                 |                   |              |
| Resin ID (ISO 1043)                       | PP-H TD20                         |                   |              |
| Physical                                  | Nominal Value                     | Unit              | Test Method  |
| Density (23°C)                            | 1.04                              | g/cm <sup>3</sup> | ISO 1183     |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 20                                | g/10 min          | ISO 1133     |
| Mechanical                                | Nominal Value                     | Unit              | Test Method  |
| Tensile Modulus                           | 2800                              | MPa               | ISO 527-2/1  |
| Tensile Stress (Yield)                    | 33.0                              | MPa               | ISO 527-2/50 |
| Tensile Strain (Yield)                    | 4.2                               | %                 | ISO 527-2/50 |
| Nominal Tensile Strain at Break           | 7.0                               | %                 | ISO 527-2    |
| Flexural Modulus <sup>1</sup>             | 2900                              | MPa               | ISO 178      |
| Impact                                    | Nominal Value                     | Unit              | Test Method  |
| Charpy Notched Impact Strength (23°C)     | 2.5                               | kJ/m <sup>2</sup> | ISO 179/1eA  |
| Charpy Unnotched Impact Strength (23°C)   | 35                                | kJ/m <sup>2</sup> | ISO 179/1eU  |
| Thermal                                   | Nominal Value                     | Unit              | Test Method  |
| Heat Deflection Temperature               |                                   |                   |              |
| 0.45 MPa, not annealed                    | 118                               | °C                | ISO 75-2/B   |
| 1.8 MPa, not annealed                     | 65.0                              | °C                | ISO 75-2/A   |
| Vicat Softening Temperature               |                                   |                   |              |
| --                                        | 152                               | °C                | ISO 306/A120 |
| --                                        | 95.0                              | °C                | ISO 306/B120 |
| Injection                                 | Nominal Value                     | Unit              |              |
| Drying Temperature                        | 80.0                              | °C                |              |
| Drying Time                               | 2.0                               | hr                |              |

|                        |               |    |
|------------------------|---------------|----|
| Suggested Max Moisture | 0.070         | %  |
| Rear Temperature       | 190 - 250     | °C |
| Middle Temperature     | 190 - 250     | °C |
| Front Temperature      | 190 - 250     | °C |
| Processing (Melt) Temp | 230 - 260     | °C |
| Mold Temperature       | 10.0 - 50.0   | °C |
| Injection Rate         | Moderate-Fast |    |

#### Injection instructions

Hold pressure: 30 to 100 % of actual injection pressure

#### NOTE

1. 2.0 mm/min

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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

