

## HOPELEN FC-150B

PP HOMO POLYMER

### General Information

#### Description

HOPELEN FC-150B is a high melt flow rate (MFR) polypropylene homopolymer especially designed for metallizing cast film technology. The resin is specifically designed not to discolor and to provide excellent film optical properties. The resin has a high crystalline, a melting point of 165 °C and metallizing purpose. This material is available as an extruded pellet. This is a low smoke, low volatile resin. It contains an unusually low level of extractable.

#### Applications

- ◆ Metallizing CPP Core Layer
- ◆ High Heat Resistance General CPP Film etc.

### Physical Properties<sup>1</sup>

| Physical  | Test Method | Nominal Values |                     |      |     |
|---|-------------|----------------|---------------------|------|-----|
| Melt Flow Index                                       | ASTM D1238  | 8              | g/10min             |      |     |
| Density   | ASTM D792   | 0.90           | g/cm <sup>3</sup>   |      |     |
| <b>Mechanical</b>                                     |             |                |                     |      |     |
| Tensile Stress (Yield)                                | ASTM D638   | 360            | kgf/cm <sup>2</sup> | 35   | MPa |
| Tensile Strain (Break)                                | ASTM D638   | >100           | %                   | >100 | %   |
| Flexural Modulus                                      | ASTM D790   | 17,500         | kgf/cm <sup>2</sup> | 1716 | MPa |
| Notched Izod Impact Strength (23°C)                   | ASTM D256   | 2.5            | kgf-cm/cm           | 24   | J/m |
| Rockwell Hardness                                     | ASTM D785   | 107            | R                   |      |     |
| <b>Thermal</b>  |             |                |                     |      |     |
| Melting Point   | ASTM D3418  | 165            | °C                  |      |     |
| Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> ) | ASTM D648   | 115            | °C                  |      |     |
| <b>Film Properties</b>                                |             |                |                     |      |     |
| Haze  | ASTM D1004  | <1.0           | %                   |      |     |
| C.O.F   | LOTTE'S     | <1.0           |                     |      |     |

\* Measured on 30 $\mu$ m CPP film made of FC-150B

### NOTE

ISO 9001, 14001, /TS 16949

<sup>1</sup> Physical Properties : these are not to be construed as specifications

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#### Applications

- ◆ Metallizing CPP Core Layer
- ◆ High Heat Resistance General CPP Film etc.

| Physical Properties <sup>1</sup>                      |             |                |                     |      |     |
|---|-------------|----------------|---------------------|------|-----|
| Physical  | Test Method | Nominal Values |                     |      |     |
| Melt Flow Index                                       | ISO 1133    | 8              | g/10min             |      |     |
| Density   | ISO 1183    | 0.90           | g/cm <sup>3</sup>   |      |     |
| <b>Mechanical</b>                                     |             |                |                     |      |     |
| Tensile Stress (Yield)                                | ISO 527-1   | 360            | kgf/cm <sup>2</sup> | 35   | MPa |
| Tensile Strain (Break)                                | ISO 527-1   | >100           | %                   | >100 | %   |
| Flexural Modulus                                      | ISO 178     | 17,500         | kgf/cm <sup>2</sup> | 1716 | MPa |
| Notched Izod Impact Strength (23°C)                   | ISO 180     | 2.5            | kgf·cm/cm           | 24   | J/m |
| Rockwell Hardness                                     | ISO 2039-2  | 107            | R                   |      |     |
| <b>Thermal</b>  |             |                |                     |      |     |
| Melting Point   | LOTTE'S     | 165            | °C                  |      |     |
| Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> ) | ISO 75-1    | 115            | °C                  |      |     |
| <b>Film Properties</b>                                |             |                |                     |      |     |
| Haze  | ASTM D1004  | <1.0           | %                   |      |     |
| C.O.F   | LOTTE'S     | <1.0           |                     |      |     |

\* Measured on 30 $\mu$ m CPP film made of FC-150B

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