

# LOTTE CHEMICAL

January, 2013

## KOPELEN JI-350

## PP BLOCK COPOLYMER

### General Information

#### Description

JI-350 is impact block copolymer with ethylene content as co-monomer.

This grade is designed to be processed in conventional Injection molding equipment.

JI-350 shows good impact resistance at low temperature and has also high strength.

It has broad range of property, and is used from industrial supplies to automotive compound base resin.

#### Applications

- ◆ General supplies & Industrial supplies
- ◆ Automotive compound base resin

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

|   |            |        |                     |       |     |
|---|------------|--------|---------------------|-------|-----|
| Melt Flow Index                                       | ASTM D1238 | 10     | g/10min             |       |     |
| Density   | ASTM D792  | 0.90   | g/cm <sup>3</sup>   |       |     |
| Mechanical  |            |        |                     |       |     |
| Tensile Stress (Yield)                                | ASTM D638  | 270    | kgf/cm <sup>2</sup> | 26    | MPa |
| Tensile Strain (Break)                                | ASTM D638  | >100   | %                   | >100  | %   |
| Flexural Modulus                                      | ASTM D790  | 13,000 | kgf/cm <sup>2</sup> | 1,280 | MPa |
| Impact  |            |        |                     |       |     |
| Notched Izod Impact Strength (23°C)                   | ASTM D256  | 7.0    | kgf-cm/cm           | 69    | J/m |
| Notched Izod Impact Strength (-10°C)                  | ASTM D256  | 3.0    | kgf-cm/cm           | 29    | J/m |
| Thermal   |            |        |                     |       |     |
| Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> ) | ASTM D648  | 105    | °C                  |       |     |
| Additional Properties                                 |            |        |                     |       |     |
| Flammability  | UL94       | HB     |                     |       |     |

### NOTE

ISO 9001, 14001, /TS 16949

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

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|   |           |        |                     |       |     |
|---|-----------|--------|---------------------|-------|-----|
| Melt Flow Index                                       | ISO 1133  | 10     | g/10min             |       |     |
| Density   | ISO 1183  | 0.90   | g/cm <sup>3</sup>   |       |     |
| Mechanical  |           |        |                     |       |     |
| Tensile Stress (Yield)                                | ISO 527-1 | 260    | kgf/cm <sup>2</sup> | 25    | MPa |
| Tensile Strain (Break)                                | ISO 527-1 | >100   | %                   | >100  | %   |
| Flexural Modulus                                      | ISO 178   | 11,000 | kgf/cm <sup>2</sup> | 1,080 | MPa |
| Impact  |           |        |                     |       |     |
| Notched Izod Impact Strength (23℃)                    | ISO 180   | 6.5    | kgf-cm/cm           | 64    | J/m |
| Notched Izod Impact Strength (-10℃)                   | ISO 180   | 2.5    | kgf-cm/cm           | 25    | J/m |
| Thermal   |           |        |                     |       |     |
| Heat Deflection Temperature (4.6kgf/cm <sup>2</sup> ) | ISO 75-1  | 85     | ℃                   |       |     |
| Additional Properties                                 |           |        |                     |       |     |
| Flammability  | UL94      | HB     |                     |       |     |

### NOTE

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