LOTTE CHEMICAL

January, 2013

# KOPELEN JH-350 PP BLOCK COPOLYMER

## General Information

### Description

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

This grade is designed to be processed in conventional Injection molding equipment and base resin for compounding.

JH-350 shows extremely high impact resistance at low temperature and has also high strength.

### Applications

- General articles
- Automotive compound base resin

## Physical Properties[1]

| Physical | Test Method | Nominal Values | | | |
|---|---|---|---|---|---|
| Melt Flow Index | ASTM D1238 | 10 | g/10min | | |
| Density | ASTM D792 | 0.9 | g/cm$^3$ | | |
| **Mechanical** | | | | | |
| Tensile Stress (Yield) | ASTM D638 | 230 | kgf/cm$^2$ | 23 | MPa |
| Tensile Strain (Break) | ASTM D638 | >100 | % | >100 | % |
| Flexural Modulus | ASTM D790 | 11,000 | kgf/cm$^2$ | 1,080 | MPa |
| **Impact** | | | | | |
| Notched Izod Impact Strength (23℃) | ASTM D256 | 12.0 | kgf·cm/cm | 118 | J/m |
| Notched Izod Impact Strength (-10℃) | ASTM D256 | 5.5 | kgf·cm/cm | 54 | J/m |
| **Thermal** | | | | | |
| Heat Deflection Temperature (4.6kgf/cm$^2$) | ASTM D648 | 100 | ℃ | | |
| **Additional Properties** | | | | | |
| Flammability | UL94 | HB | | | |

## NOTE

ISO 9001, 14001, /TS 16949

[1] Physical Properties : these are not to be construed as specifications

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### Applications

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## Physical Properties[1]

| Physical | Test Method | Nominal Values | | | |
|---|---|---|---|---|---|
| Melt Flow Index | ISO 1133 | 10 | g/10min | | |
| Density | ISO 1183 | 0.9 | g/cm$^3$ | | |
| **Mechanical** | | | | | |
| Tensile Stress (Yield) | ISO 527-1 | 220 | kgf/cm$^2$ | 22 | MPa |
| Tensile Strain (Break) | ISO 527-1 | >100 | % | >100 | % |
| Flexural Modulus | ISO 178 | 9,000 | kgf/cm$^2$ | 880 | MPa |
| **Impact** | | | | | |
| Notched Izod Impact Strength (23℃) | ISO 180 | 11 | kgf·cm/cm | 105 | J/m |
| Notched Izod Impact Strength (-10℃) | ISO 180 | 5 | kgf·cm/cm | 49 | J/m |
| **Thermal** | | | | | |
| Heat Deflection Temperature (4.6kgf/cm$^2$) | ISO 75-1 | 80 | ℃ | | |
| **Additional Properties** | | | | | |
| Flammability | UL94 | HB | | | |

## NOTE

ISO 9001, 14001, /TS 16949

[1] Physical Properties : these are not to be construed as specifications