

# Luban HPR3518CB

## Linear Low Density Polyethylene



### Description

Luban HPR3518CB is metallocene LLDPE grade made using Hexene co-monomer. Films made using this grade has outstanding tensile properties with very good impact and puncture toughness. These superior properties along with excellent draw down capability makes this grade versatile for mono-layer and multi-layer cast film applications.

Additives:

- Thermal Stabilizer

### Application

Cast stretch films, bag in box, food packaging films, diaper back sheet, FFS packaging films, hygiene films, blown films, multi-layer packaging films

### Properties (Typical Values)

| Property                           | Unit               | Test method | Value*  |
|------------------------------------|--------------------|-------------|---------|
| Melt Index (190°C/2.16 kg)         | g/10 min           | ASTM D1238  | 3.5     |
| Density                            | g /cm <sup>3</sup> | ASTM D792   | 0.918   |
| Tensile strength at break (MD/TD)  | MPa                | ASTM D882   | 70/47   |
| Elongation at break (MD/TD)        | %                  | ASTM D882   | 510/680 |
| Secant modulus – 1% secant (MD/TD) | MPa                | ASTM D882   | 110/120 |
| Dart Drop Impact                   | g                  | ASTM 1709A  | 140     |
| Elmendorf tear strength (MD/TD)    | g                  | ASTM D1922  | 190/500 |
| Puncture Energy                    | J                  | OQ Method   | 4.29    |
| Gloss (45°)                        |                    | ASTM D2457  | 86      |
| Haze                               | %                  | ASTM D1003  | 2.4     |
| Melting Temperature (DSC)          | °C                 | ASTM D3418  | 114     |

\*The film properties have been measured on 20 µm (0.8 mil) thick films produced on a cast film line run at melt temp. 277-310°C, chill roll temp. 27°C and line speed 230 m/min.

**Note:** These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

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### Storage and Handling

Luban HPR3518CB must be protected from direct sunlight and should be stored in a shaded and completely dry area. During handling and processing, the material should be kept in a well-ventilated area to prevent the accumulation of dust and fumes. Contact with strong oxidizers, excessive heat, sparks or open flame should be avoided as this could initiate the degradation process and consequently impact the quality of the material.

### Safety

Luban HPR3518CB is not classified as dangerous preparation. For further information about safety in handling and processing please refer to the Safety Data Sheet.

### Food Contact

Luban HPR3518CB meets the requirements of the U.S. Food and Drug Administration (FDA) as specified in 21 CFR 177.1520, covering safe use of polyolefin articles and components of articles intended for direct food contact. For additional information on approved conditions of use for food contact applications, please refer to the "Product Stewardship Declaration".

### Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

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### Disclaimer:

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