

innovation

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## Smart<sup>™</sup> 154

Smart<sup>™</sup> 154, metallocene LLDPE, is an ethylene-octene copolymer produced via Nexlene<sup>™</sup> Technology from SK. It performs well in a wide range of LLDPE cast film applications, and has excellent impact strength and good transparency.

Applications: Stretch wrap, silage film, etc.

**Additives** 

Antiblock: No

Slip: No

|             |                           |    | Typical Values | Unit               | Test Method |
|-------------|---------------------------|----|----------------|--------------------|-------------|
| Resin       | Co-monomer                |    | Octene-1       |                    | SK Method   |
| properties  | Density                   |    | 0.915          | g/cm <sup>3</sup>  | ASTM D1505  |
|             | MI                        |    | 3.5            | g/10min            | ASTM D1238  |
|             | Melting point             |    | ~ 115          | °C                 | SK Method   |
|             |                           |    |                |                    |             |
| Film        | Dart drop impact          |    | > 1000         | g                  | ASTM D1709  |
| Properties* | Haze                      |    | 1.5            | %                  | ASTM D1003  |
|             | Initial tear strength     | MD | 100            | kg/cm              | ASTM D1004  |
|             |                           | TD | 90             | kg/cm              | ASTM D1004  |
|             | Elmendorf tear strength   | MD | 16             | g/um               | ASTM D1922  |
|             |                           | TD | 25             | g/um               | ASTM D1922  |
|             | Tensile strength at break | MD | 495            | kg/cm <sup>2</sup> | ASTM D882   |
|             |                           | TD | 500            | kg/cm <sup>2</sup> | ASTM D882   |
|             | Elongation at break       | MD | 600            | %                  | ASTM D882   |
|             |                           | TD | 700            | %                  | ASTM D882   |
|             | Tensile strength at yield | MD | 95             | kg/cm <sup>2</sup> | ASTM D882   |
|             |                           | TD | 90             | kg/cm <sup>2</sup> | ASTM D882   |

<sup>\*</sup> Typical values, not to be used as specifications.

## **Conditions for Cast film production**

- Machine: Cast film line with 30Ø screw

- Film specification: 40um x 355mm