



# SABIC<sup>®</sup> COHERE<sup>™</sup> 8170D

METALLOCENE POLYOLEFIN PLASTOMER

## DESCRIPTION

SABIC<sup>®</sup> COHERE<sup>™</sup> 8170D is an ethylene-octene copolymer produced via solution polymerization using metallocene catalyst. It can be used in monolayer or coextruded film to enhance heat-sealing properties, clarity, toughness, flexibility and elasticity. It has strict gel control to meet high quality film requirements.

## TYPICAL APPLICATIONS

- Sealant layer in multi-layer film;
- Cling layer in stretch wrap film;
- Adhesive layer in surface protect film.

## TYPICAL PROPERTY VALUES

| PROPERTIES                               | TYPICAL VALUES | UNITS             | TEST METHODS    |
|--|----------------|-------------------|-----------------|
| <b>POLYMER PROPERTIES</b>                |                |                   |                 |
| <b>Melt Flow Rate</b>                    |                |                   |                 |
| at 190°C and 2.16 kg                     | 1.0            | g/10 min          | ASTM D1238      |
| <b>Density</b>                           |                |                   |                 |
| at 23°C                                  | 0.868          | g/cm <sup>3</sup> | ASTM D792       |
| <b>FORMULATION</b>                       |                |                   |                 |
| Anticaking                               | ☑              | -                 | Internal method |
| <b>MECHANICAL PROPERTIES</b>             |                |                   |                 |
| Flexural Modulus (1% Secant)             | 13.2           | MPa               | ASTM D790 A     |
| Tear Strength (Type C)                   | 39.2           | kN/m              | ASTM D624       |
| <b>FILM PROPERTIES</b>                   |                |                   |                 |
| <b>Tensile Properties <sup>(1)</sup></b> |                |                   |                 |
| stress at break                          | 9.3            | MPa               | ASTM D638       |
| elongation at break                      | 850            | %                 | ASTM D638       |
| 100% modulus                             | 2.9            | MPa               | ASTM D638       |
| <b>THERMAL PROPERTIES</b>                |                |                   |                 |
| Melting Point                            | ~62            | °C                | SABIC method    |