

COHERET™ PLASTOMER S400

METALLOCENE POLYOLEFIN PLASTOMER

DESCRIPTION

COHERET™ Metallocene Polyolefin Plastomer (POP) S400 is an ethylene-octene copolymer produced via solution polymerization using metallocene catalyst. It performs well in high performance flexible packaging applications with excellent toughness, hot tack, hot seal, optical properties and shows enhanced cling force in protection film application.

TYPICAL APPLICATIONS

- Packaging with outstanding sealing performance (low seal initiation temperature, broad hot tack window, excellent seal through contamination).
- Packaging available for high speed form-fill-sealing machine.
- Protection film with enhanced cling force.
- Cling cast stretch film.

TYPICAL PROPERTY VALUES

Revision 20230403

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|----------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Density | 900 | kg/m ³ | ASTM D792 |
| Melt Flow Rate (MFR) | | | |
| @ 190°C & 2.16 kg load | 3.5 | g/10 min | ASTM D1238 |
| OPTICAL PROPERTIES | | | |
| Haze | 0.5 | % | ASTM D1003 |
| FILM PROPERTIES | | | |
| Tensile Properties ⁽¹⁾ | | | |
| stress at break, MD | 51 | MPa | ASTM D882 |
| stress at break, TD | 49 | MPa | ASTM D882 |
| strain at break, MD | 490 | % | ASTM D882 |
| strain at break, TD | 700 | % | ASTM D882 |
| 1% secant modulus, MD | 60 | MPa | ASTM D882 |
| 1% secant modulus, TD | 70 | MPa | ASTM D882 |
| Dart Impact Strength ⁽¹⁾ | | | |
| Method A | >1000 | g | ASTM D1709 |
| Elmendorf Tear Strength ⁽¹⁾ | | | |
| MD | 15 | g/μm | ASTM D1922 |
| TD | 20 | g/μm | ASTM D1922 |
| Sealing Initiation Temperature ⁽²⁾ | 82 | °C | SABIC method |
| THERMAL PROPERTIES | | | |
| Melting Point | 107 | °C | SABIC method |

(1) Properties have been measured by producing 40 μm cast film,

(2) Temperature at which 0.4 kg/25.4mm heat seal strength is achieved.



STORAGE AND HANDLING

The resin should be stored in a manner to prevent a direct exposure to sunlight and / or heat. The storage area should also be dry and preferably do not exceed 50°C. SABIC would not give warranty to bad storage conditions that may lead to quality deterioration such as color change, bad smell and inadequate product performance. It is advisable to process PE resin within 6 months after delivery.

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