COHERE™ PLASTOMER S400

METALLOCENE POLYOLEFIN PLASTOMER

DESCRIPTION

COHERE™ 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

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	900	kg/m³	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.