



# COHERETM PLASTOMER 8402

METALLOCENE POLYOLEFIN PLASTOMER

### DESCRIPTION

COHERETM Metallocene Polyolefin Plastomer (POP) 8402 grade is an ethylene-octene copolymer produced via solution polymerization using metallocene catalyst. It performs well high performance LLDPE cast film and deliver outstanding toughness optics. SABIC@ COHERETM 8402 provides excellent performance as cling layer in stretch wrap film.

### TYPICAL APPLICATIONS

Low temperature sealing layer for high value packaging (low SIT, seal through contamination, toughness improvement) and cast stretch film.

### TYPICAL PROPERTY VALUES

Revision 20211208

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Melt Flow Rate (MFR)			
at 190°C and 2.16 kg	3.5	g/10 min	ASTM D1238
Density	902	kg/m³	ASTM D1505
Mooney viscosity			
ML 1+4, 121 °C	10	MU	ASTM D1646
MECHANICAL PROPERTIES			
Tensile Strength at Break <sup>(1)</sup>	200	kgf/cm²	ASTM D638
Tensile Elongation at Break <sup>(2)</sup>	850	%	ASTM D638
Flexural Modulus (1% Secant)	760	kgf/cm²	ASTM D790
Tear Strength (Type C)	85	kgf/cm²	ASTM D624
Hardness			
Shore A (1 sec)	89	-	ASTM D2240
Shore D (1 sec)	40	-	ASTM D2240
OPTICAL PROPERTIES			
Haze	0.5	%	ASTM D1003
FILM PROPERTIES			
Tensile test film <sup>(3)</sup>			
stress at break, MD	50	MPa	ASTM D882
stress at break, TD	44	MPa	ASTM D882
elongation at break, MD	520	%	ASTM D882
elongation at break, TD	600	%	ASTM D882
1% secant modulus, MD	64	MPa	ASTM D882
1% secant modulus, TD	78	MPa	ASTM D882
Dart Impact F50 <sup>(3)</sup>	>1000	g	ASTM D1709
Elmendorf Tear Strength <sup>(3)</sup>			
MD	12	g/µm	ASTM D1922
TD	17	g/µm	ASTM D1922
THERMAL PROPERTIES			
Melting Point	104	°C	SABIC method
Glass Transition Temperature, Tg	-32	°C	SABIC method



- (1) Evaluated using compression molded sample.
- (2) Crosshead speed: 500mm/min.
- (3) Properties have been measured by producing 40 µm film cast line using 100% COHERETM 8402.

## PROCESSING CONDITIONS

Typical processing conditions for COHERETM 8402 are:

Barrel temperature: 250 - 300°C

Chill roll temperature: 15 - 25 °C

## FOOD REGULATION

Please contact the local Sales / Technical representative for details.

## 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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