

# COPYLENE® CM500LN

Polypropylene Impact Copolymer

Phillips 66

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

COPYLENE® CM500LN is a very high melt flow, controlled rheology, medium impact polypropylene copolymer resin designed for injection molding applications requiring a good balance of stiffness, impact, resistance and processability. It is made with a non-phthalate catalyst.

Applications:

- TWIM
- Storage Containers

### General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing - Injection Molding (English)</a> • <a href="#">Processing - Thermoforming (English)</a> • <a href="#">Technical Datasheet (English)</a>
Search for UL Yellow Card	• <a href="#">Phillips 66</a> • <a href="#">COPYLENE®</a>
Availability	• North America
Features	• Controlled Rheology • Good Processability • Good Stiffness • High Flow • Impact Copolymer • Medium Impact Resistance
Uses	• Containers
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	0.900 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	50 g/10 min	ASTM D1238
Mechanical	Nominal Value Unit	Test Method
Tensile Strength <sup>3</sup> (Yield)	20.7 MPa	ASTM D638
Tensile Elongation (Yield)	6.0 %	ASTM D638
Flexural Modulus - 1% Secant <sup>4</sup>	1100 MPa	ASTM D790A
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C)	110 J/m	ASTM D256A
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	97.0 °C	ASTM D648

### Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> 51 mm/min

<sup>4</sup> 1.3 mm/min



# COPYLENE® CM500LN

Polypropylene Impact Copolymer

Phillips 66

# PROSPECTOR®

[www.ulprospector.com](http://www.ulprospector.com)

## Where to Buy

### Supplier

#### Phillips 66

Houston, TX USA  
Telephone: 281-293-6600  
Web: <http://www.copylene.com/>

### Distributor

#### Amco Polymers

Telephone: 800-262-6685  
Web: <http://www.amcopolymers.com/>  
Availability: North America

#### Bamberger Polymers, Inc.

*Bamberger Polymers is a global distribution company. Contact Bamberger Polymers for availability of individual products by country.*  
Telephone: 516-622-3600  
Web: <http://www.bambergerpolymers.com/>  
Availability: Canada, United States

#### Osterman & Company

Telephone: 800-914-4437  
Web: <http://www.osterman-co.com/>  
Availability: North America

