COPYLENE®

PRODUCT DATASHEET

For more information and technical assistance contact Phillips 66 COPYLENE® Polypropylene at *www.COPYLENE.com.*

COPYLENE® CM500LN

Impact Copolymer

Applications:

- TWIM
- Storage Containers

Product Description

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

Product Properties

Typical Properties	Method	Value Unit
Physical		
Melt Flow Rate (230°C/2.16kg)	ASTM D 1238	50 g/10 min
Density – Specific Gravity	ASTM D 792	0.9 sp. gr
Mechanical		
Tensile Strength @ Yield (2 in/min) (50 mm/min)	ASTM D 638	 3,100 psi 21.4 MPa
Flexural Modulus (0.05 in/min, 1% Secant, Procedure A) (1 mm/min, 1% Secant, Procedure A)	ASTM D 790	 160,000 psi 1,089 MPa
Tensile Elongation @Yld	ASTM D 638	7%
Impact		
Notched Izod impact (73 °F, Method A) (23 °C, Method A)	ASTM D 256	 2 ft-lb/in 105 J/m
Thermal		
DTUL @66psi – Unannealed	ASTM D 648	95 °C

For regulatory compliance information, see COPYLENE® CM500LN Product Stewardship Information Sheet. MSDS available upon request, or on our Web site at *www.COPYLENE.com*. The product specifications are nominal properties and do not reflect normal testing variance and should not be used for specification purposes.

Revision Date January 2025

Before using this product, the user is advised and cautioned to make its own determination and assessment of the safety and suitability of the product for the specific use in question and is further advised against relying on the information contained herein as it may relate to any specific use or application. It is the ultimate responsibility of the user to ensure that the product is suited, and the information is applicable to the user's specific application. Phillips 66 Company does not make, and expressly disclaims, all warranties, including warranties of merchantability or fitness for a particular purpose, regardless of whether oral or written, express or implied, or allegedly arising from any usage of any trade or from any course of dealing in connection with the use of the information contained herein or the product itself. The user expressly assumes all risk and liability, whether based in contract, tort or otherwise, in connection with the use of the information contained herein or the product itself. Further, information contained herein is given without reverence to any intellectual property issues, as well as federal, state or local laws which may be encountered in the use thereof. Such questions should be investigated by the user.

PHILLIPS 66®, PHILLIPS 66® Shield, COPYLENE® and other trademarks displayed herein are registered trademarks of Phillips 66 Company or one of its subsidiaries.