# Formolene® 2306N

### Polypropylene Impact Copolymer

Formosa Plastics Corporation, U.S.A.

#### Message:

Formolene <sup>®</sup> 2306N is a polypropylene copolymer formulated for compression and injection molded cap applications. It was created specifically to meet the demands of beverage closures including those containing carbonation. 2306N offers advantages in both processing and physical properties over traditional polypropylene grades. Of interest is good resistance to blushing caused typically through secondary process operations or supply chain handling.

Formolene® 2306N meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles and components of articles intended for direct food contact.

General Information			
Features	Blush Resistant		
	Food Contact Acceptable		
	Good Processability		
	Impact Copolymer		
Uses	Caps		
	Closures		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	6.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection			
Molded)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield, Injection Molded)	30.0	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (Injection			
Molded)	1380	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C, Injection Molded	85	J/m	
23°C, Injection Molded	270	J/m	

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed, Injection Molded)	115	°C	ASTM D648
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	1.3 mm/min		

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