Formolene® 2306N

Tuesday, November 5, 2019

Formosa Plastics Corporation, U.S.A. - Polypropylene Impact Copolymer

General Information

Product Description

Formolene® 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 the 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.

This material is free of animal-derived content.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Blush Resistant • Food Contact Acceptable	• Good Processability • Impact Copolymer	• Medium Impact Resistance • No Animal Derived Components
Uses	• Caps	• Closures	
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Compression Molding	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (230°C/3.8 kg)	6.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	4350	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Injection Molded)	210000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256A
32°F, Injection Molded	0.99	ft·lb/in	
73°F, Injection Molded	5.0	ft·lb/in	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	95		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	239	°F	

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 in/min

[3] 0.051 in/min