Formolene® 2510W

Tuesday, November 5, 2019

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

General Information

Product Description

Formolene® 2510W is a medium impact copolymer of polypropylene characterized by its easy mold flow, physical property balance and excellent dimensional stability. It contains a unique combination of stabilizers and pigment, which give it excellent processing and improved color.

Formolene® 2510W 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		
Additive	• Unspecified Stabilizer		
Features	• Food Contact Acceptable • Good Color Stability • Good Dimensional Stability	• Good Flow • Good Processability • Impact Copolymer	• Medium Impact Resistance • No Animal Derived Components
Uses	• Battery Cases		
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Appearance	• White		
Forms	• Pellets		
Processing Method	• 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/2.16 kg)	10	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	3630	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	7.0	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Injection Molded)	160000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256A
32°F, Injection Molded	1.4	ft·lb/in	
73°F, Injection Molded	2.0	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	190	°F	

Notes

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

[2] 2.0 in/min

[3] 0.051 in/min