Formolene® 1203K

Formosa Plastics Corporation, U.S.A. - Polypropylene Homopolymer

Tuesday, November 5, 2019

General Information

Product Description

Formolene® 1203K is a high molecular weight, polypropylene homopolymer designed for biaxially oriented film (BOPP). It has been designed for improved processability in the stretching process, which also results in better end use performance than existing grades. It does not contain slip or antiblock.

Formolene® 1203K 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	• Food Contact Acceptable • Good Processability	• High Molecular Weight • Homopolymer	• No Animal Derived Components
Uses	• Bi-axially Oriented Film		
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Bi-axially Oriented Film		

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)	3.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	4930	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	10	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Injection Molded)	200000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, Injection Molded)	0.99	ft·lb/in	ASTM D256A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	104		ASTM D785

Notes

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

[2] 2.0 in/min

[3] 0.051 in/min