Formolene® E922

Tuesday, November 5, 2019

Formosa Plastics Corporation, U.S.A. - High Density (MMW) Polyethylene

General Information

Product Description

Formolene E922 is a medium molecular weight grade of HDPE designed for good processing characteristics and good film stiffness for thin gauge film applications.

Formolene E922 meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

Suggested Applications:

- Shopping Bags
- Trash Can Liners
- Thin Film for Laminate Applications

General		
Material Status	• Commercial: Active	
Availability	• North America	
Features	• Food Contact Acceptable • Good Processability	• Good Stiffness • Medium Molecular Weight
Uses	• Bags • Film	• Laminates • Liners
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520
Forms	• Pellets	
Processing Method	• Film Extrusion	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.953	g/cm³	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	0.15	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	1	mil	
Secant Modulus - 1% Secant, MD (0.50 mil, Blown Film)	84000	psi	ASTM D882
Secant Modulus - 1% Secant, TD (0.50 mil, Blown Film)	145000	psi	ASTM D882
Tensile Strength - MD (Break, 0.50 mil, Blown Film)	8300	psi	ASTM D882
Tensile Strength - TD (Break, 0.50 mil, Blown Film)	5900	psi	ASTM D882
Tensile Elongation - MD (Break, 0.50 mil, Blown Film)	300	%	ASTM D882
Tensile Elongation - TD (Break, 0.50 mil, Blown Film)	540	%	ASTM D882
Dart Drop Impact (0.50 mil, Blown Film)	190	g	ASTM D1709
Elmendorf Tear Strength - MD (0.50 mil, Blown Film)	16	g	ASTM D1922
Elmendorf Tear Strength - TD (0.50 mil, Blown Film)	200	g	ASTM D1922
Thermal	**Nominal Value**	**Unit**	**Test Method**
Melting Temperature	270	°F	DSC

Notes

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