Formolene® 3312E

Tuesday, November 5, 2019

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

General Information

Product Description

Formolene® 3312E is a clarified, medium flow random copolymer with fast cycle time and easy mold release. It is designed for injection molding applications. The low haze value and very low yellowness index makes it an excellent choice for "see-through" house wares and rigid packaging.

Formolene® 3312E 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	• Clarifier		
Features	• Fast Molding Cycle • Food Contact Acceptable • Good Mold Release	• High Clarity • Medium Flow • No Animal Derived Components	• Random Copolymer
Uses	• Containers • Household Goods	• Pharmaceutical Packaging • Rigid Packaging	
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Appearance	• Clear/Transparent		
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)	12	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	4210	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	15	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Injection Molded)	150000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, Injection Molded)	1.5	ft·lb/in	ASTM D256A
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	100		ASTM D785
Optical	**Nominal Value**	**Unit**	**Test Method**
Haze (Injection Molded)	6.00	%	Internal Method

Notes

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

[2] 2.0 in/min

[3] 0.051 in/min