



## Formolene® 3312E

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

Tuesday, November 5, 2019

### 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	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>		
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>		
Additive	<ul style="list-style-type: none"> <li>Clarifier</li> </ul>		
Features	<ul style="list-style-type: none"> <li>Fast Molding Cycle</li> <li>Food Contact Acceptable</li> <li>Good Mold Release</li> </ul>	<ul style="list-style-type: none"> <li>High Clarity</li> <li>Medium Flow</li> <li>No Animal Derived Components</li> </ul>	<ul style="list-style-type: none"> <li>Random Copolymer</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Containers</li> <li>Household Goods</li> </ul>	<ul style="list-style-type: none"> <li>Pharmaceutical Packaging</li> <li>Rigid Packaging</li> </ul>	
Agency Ratings	<ul style="list-style-type: none"> <li>EC 1907/2006 (REACH)</li> <li>FDA 21 CFR 177.1520</li> </ul>		
Appearance	<ul style="list-style-type: none"> <li>Clear/Transparent</li> </ul>		
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>		
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>		

### ASTM & ISO Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	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 <sup>2</sup> (Yield, Injection Molded)	4210	psi	ASTM D638
Tensile Elongation <sup>2</sup> (Yield, Injection Molded)	15	%	ASTM D638
Flexural Modulus - 1% Secant <sup>3</sup> (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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 2.0 in/min

<sup>3</sup> 0.051 in/min

UL and the UL logo are trademarks of UL LLC © 2019. All Rights Reserved.

The information presented here was acquired by UL from the producer of the product or material or original information provider. However, UL assumes no responsibility or liability for the accuracy of the information contained on this website and strongly encourages that upon final product or material selection information is validated with the manufacturer. This website provides links to other websites owned by third parties. The content of such third party sites is not within our control, and we cannot and will not take responsibility for the information or content.