



Formolene® 3312B

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene® 3312B is a medium melt flow random copolymer with fast cycle time and easy mold release. It is designed for injection molding applications. Its clarity makes it an excellent choice for "see-through" housewares and rigid packaging.

Formolene® 3312B 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	• Fast Molding Cycle • Food Contact Acceptable • Good Mold Release • High Clarity • Medium Flow • No Animal Derived Components • Random Copolymer
Uses	• Beverage Containers • Containers • Food Containers • Household Goods • 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/cm ³	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)	4350	psi	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	13	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	155000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, Injection Molded)	1.5	ft-lb/in	ASTM D256A
Gardner Impact (73°F, 0.126 in, Injection Molded)	168	in-lb	ASTM D2794
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	108		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, Injection Molded	194	°F	ASTM D648
Optical	Nominal Value	Unit	Test Method
Haze (Injection Molded)	15.0	%	Internal Method

Notes

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

² 2.0 in/min

³ 0.051 in/min