Formolene® 3380E

Tuesday, November 5, 2019

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

General Information

Product Description

Formolene® 3380E is a very high melt flow random copolymer with fast cycle time and easy processability. It is designed for injection molding including thin wall applications requiring good mold and part release. The use of an advanced clarifier which provides the aesthetic values of neutral color and low haze - makes it an excellent choice for 'see-through' house wares and rigid packaging.

Formolene® 3380E 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 • Good Processability	• High Clarity • High Flow	• No Animal Derived Components • Random Copolymer
Uses	• Food Containers • Household Goods	• Rigid Packaging • Thin-walled Containers	
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
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)	80	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	4200	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	14	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Injection Molded)	160000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, Injection Molded)	1.1	ft·lb/in	ASTM D256
Gardner Impact (73°F, Injection Molded)	186	in·lb	ASTM D5420
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	178	°F	
Optical	**Nominal Value**	**Unit**	**Test Method**
Haze (39.4 mil, Injection Molded)	10.0	%	Internal Method

Notes

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

[2] 2.0 in/min

[3] 0.051 in/min