Formolene® 3355O

Tuesday, November 5, 2019

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

General Information

Product Description

Formolene® 3355O is a high melt flow random copolymer with fast cycle time and exceptionally good mold and denesting release. It is designed for injection molding including thin wall applications.

The use of an advanced clarifier with low yellowness index and haze - makes it an excellent choice for 'see-through' housewares and rigid packaging. Use of this clarifier allows processers to run at lower temperatures - resulting in the potential for cycle time reductions and energy savings.

Formolene® 3355O 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 Clarity	• Good Mold Release • High Flow	• Random Copolymer
Uses	• Sheet	• Thermoforming Applications	
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Processing Method	• Sheet Extrusion	• Thermoforming	

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)	55	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)	150000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, Injection Molded)	0.99	ft·lb/in	ASTM D256A
Gardner Impact (73°F, Injection Molded)	177	in·lb	ASTM D5420
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	248	°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