



Formolene® 3435E

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

Tuesday, November 5, 2019

General Information

Product Description

Formolene® 3435E is a high melt flow random copolymer with fast cycle time and easy mold release. It is designed for injection molding including thin wall applications requiring a higher level of impact resistance. Its clarity and low yellow index makes it an excellent choice for 'see-through' house wares and rigid packaging.

Formolene® 3435E 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"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> North America 		
Features	<ul style="list-style-type: none"> Fast Molding Cycle Good Clarity 	<ul style="list-style-type: none"> Good Mold Release High Flow 	<ul style="list-style-type: none"> High Impact Resistance
Uses	<ul style="list-style-type: none"> Containers Household Goods 	<ul style="list-style-type: none"> Transparent Parts Vials 	
Agency Ratings	<ul style="list-style-type: none"> EC 1907/2006 (REACH) 	<ul style="list-style-type: none"> FDA 21 CFR 177.1520 	
Processing Method	<ul style="list-style-type: none"> Injection Molding 		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield, Injection Molded)	3770	psi	ASTM D638
Tensile Elongation ² (Yield, Injection Molded)	16	%	ASTM D638
Flexural Modulus - 1% Secant ³ (Injection Molded)	130000	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, Injection Molded)	221	in·lb	ASTM D5420
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, Injection Molded)	100		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 66 psi, Unannealed, Injection Molded	160	°F	ASTM D648
Optical	Nominal Value	Unit	Test Method
Haze (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

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