Formolene® 6610A

Tuesday, November 5, 2019

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

General Information

Product Description

Formolene® 6610A is a high impact copolymer of polypropylene designed for such injection applications as automotive compounding, lawn & garden products and appliances. It is characterized by an excellent physical property balance of stiffness and impact at room temperature and sub-ambient conditions as well as finished product dimensional stability. It contains a unique combination of stabilizers, which provide excellent processing and usage performance.

Formolene® 6610A 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	• Unspecified Stabilizer		
Features	• Food Contact Acceptable • Good Dimensional Stability • Good Processability	• High Impact Resistance • High Stiffness • Impact Copolymer	• Low Temperature Impact Resistance • No Animal Derived Components
Uses	• Appliances	• Automotive Applications	• Lawn and Garden Equipment
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Compounding	• 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)	10	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield, Injection Molded)	3190	psi	ASTM D638
Tensile Elongation [2] (Yield, Injection Molded)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Injection Molded)	145000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256A
-22°F, Injection Molded	1.5	ft·lb/in	
0°F, Injection Molded	1.7	ft·lb/in	
73°F, Injection Molded	11	ft·lb/in	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	110		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	203	°F	
Deflection Temperature Under Load			ASTM D648
264 psi, Unannealed, Injection Molded	122	°F	

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Notes

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

[2] 2.0 in/min

[3] 0.051 in/min