Formolene® 6600A

Tuesday, November 5, 2019

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

General Information

Product Description

Formolene® 6600A is a high impact copolymer with an excellent balance of toughness and stiffness. It is suitable for compounding programs as well as blow-molded bottles and components, heavy gauge sheet for thermoformed containers and components and profile extrusions.

Formolene® 6600A 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	• Food Contact Acceptable • Good Stiffness • Good Toughness	• High Impact Resistance • Impact Copolymer • Low Flow	• No Animal Derived Components
Uses	• Bottles • Compounding	• Profiles • Sheet	• Thermoformed Containers
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Blow Molding • Compounding	• 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)	0.50	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)	10	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Injection Molded)	155000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256A
-22°F, Injection Molded	1.6	ft·lb/in	
0°F, Injection Molded	2.1	ft·lb/in	
32°F, Injection Molded	2.5	ft·lb/in	
73°F, Injection Molded	No Break		
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	187	°F	

Notes

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

[2] 2.0 in/min

[3] 0.051 in/min