Formolene® 6502A

Tuesday, November 5, 2019

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

General Information

Product Description

Formolene® 6502A is a high impact copolymer with an excellent balance of toughness and stiffness. It is suitable for blow-molded bottles and components, heavy gauge sheet for thermoformed containers and components and profile extrusions including corrugated board.

Material has been approved under automotive specification - FCA MS-DB-500 CPN 4809.

Formolene® 6502A 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 • No Animal Derived Components
Uses	• Blow Molding Applications • Bottles	• Profiles • Sheet	• Thermoformed Containers
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Automotive Specifications	• CHRYSLER MS-DB-500 CPN4809		
Forms	• Pellets		
Processing Method	• Blow Molding	• Extrusion	• Profile Extrusion

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)	1.5	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)	9.0	%	ASTM D638
Flexural Modulus - 1% Secant [3] (Injection Molded)	175000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256A
32°F, Injection Molded	1.7	ft·lb/in	
73°F, Injection Molded	16	ft·lb/in	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale, Injection Molded)	95		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 psi, Unannealed, Injection Molded	207	°F	

Notes

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

[2] 2.0 in/min

[3] 0.051 in/min