

Technical Data

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		
Literature ¹	<ul style="list-style-type: none"> • Processing - Film (English) • Processing - Injection Molding (English) • Processing - Sheet Extrusion (English) • Technical Datasheet (English) 		
UL Yellow Card ²	• E205741-104607393		
Search for UL Yellow Card	<ul style="list-style-type: none"> • Formosa Plastics Corporation, U.S.A. • Formolene® 		
Availability	• North America		
Features	<ul style="list-style-type: none"> • Food Contact Acceptable • Good Stiffness 	<ul style="list-style-type: none"> • Good Toughness • High Impact Resistance 	<ul style="list-style-type: none"> • Impact Copolymer • No Animal Derived Components
Uses	<ul style="list-style-type: none"> • Blow Molding Applications • Bottles 	<ul style="list-style-type: none"> • Profiles • Sheet 	<ul style="list-style-type: none"> • Thermoformed Containers
Agency Ratings	<ul style="list-style-type: none"> • 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

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.5 g/10 min	1.5 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ⁴ (Yield, Injection Molded)	3770 psi	26.0 MPa	ASTM D638
Tensile Elongation ⁴ (Yield, Injection Molded)	9.0 %	9.0 %	ASTM D638
Flexural Modulus - 1% Secant ⁵ (Injection Molded)	175000 psi	1210 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			ASTM D256A
32°F (0°C), Injection Molded	1.7 ft·lb/in	91 J/m	
73°F (23°C), Injection Molded	16 ft·lb/in	850 J/m	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness			ASTM D785
R-Scale, Injection Molded	95	95	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed, Injection Molded	207 °F	97.0 °C	



Formolene® 6502A

Polypropylene Impact Copolymer

Formosa Plastics Corporation, U.S.A.

PROSPECTOR®

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Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 2.0 in/min (50 mm/min)

⁵ 0.051 in/min (1.3 mm/min)

