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

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	 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	 Formosa Plastics Corporation, U.S.A. Formolene® 		
Availability	North America		
Features	Food Contact AcceptableGood Stiffness	Good ToughnessHigh Impact Resistance	 Impact Copolymer No Animal Derived Components
Uses	Blow Molding ApplicationsBottles	 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

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	



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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)



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