Hybrid S493 Polycarbonate Alloy

Ravago Manufacturing Americas, LLC



Technical Data

Product Description

Hybrid S493 is a Polycarbonate Alloy (PC Alloy) product. It can be processed by injection molding and is available in North America. Typical application: Automotive.

Characteristics include:

- Flame Rated
- RoHS Compliant
- Heat Resistant
- Impact Resistant

General		
Material Status	Commercial: Active	
Literature ¹	Technical Datasheet	
Search for UL Yellow Card	Ravago Manufacturing Americas, LLCHybrid	
Availability	North America	
Features	High Heat Resistance Medium Impact Resistance	
RoHS Compliance	RoHS Compliant	
Automotive Specifications	MERCEDES BENZ US DBL 5404.21 Color: All Color Matches	
Forms	Pellets	
Processing Method	Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity			
	1.06	1.06 g/cm ³	ASTM D792
	1.06 g/cm ³	1.06 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	13 g/10 min	13 g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	0.842 in ³ /10min	13.8 cm ³ /10min	ISO 1133
Molding Shrinkage			
Flow	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ASTM D955
	0.40 to 0.70 %	0.40 to 0.70 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			
Yield, 73°F (23°C), Injection Molded	6200 psi	42.7 MPa	ASTM D638
Yield, Injection Molded	6670 psi	46.0 MPa	ISO 527-2
Flexural Modulus			
73°F (23°C), Injection Molded	365000 psi	2520 MPa	ASTM D790
73°F (23°C), Injection Molded	363000 psi	2500 MPa	ISO 178
Flexural Strength			
73°F (23°C), Injection Molded	11200 psi	77.2 MPa	ASTM D790
73°F (23°C), Injection Molded	11300 psi	78.0 MPa	ISO 178
mpact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact			
73°F (23°C)	4.7 ft·lb/in	250 J/m	ASTM D256
73°F (23°C)	8.6 ft·lb/in²	18 kJ/m²	ISO 180
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
264 psi (1.8 MPa), Unannealed, Injection Molded	198°F	92.0 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	196 °F	91.0 °C	ISO 75-2/A
Vicat Softening Temperature	220 °F	104 °C	ASTM D1525

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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	HB	НВ	UL 94

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

³ Rate A (50°C/h), Loading 2 (50 N)

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Where to Buy

Supplier

Manchester, TN USA
Telephone: 800-459-7009 Web: http://www.ravagomfg.com/

Distributor

Amco Polymers

Telephone: 800-262-6685

Web: http://www.amcopolymers.com/

Availability: North America

Channel Prime Alliance Telephone: 800-247-8038

Web: http://www.channelpa.com/ Availability: North America

Entec Polymers Telephone: 800-375-5440

Web: http://www.entecpolymers.com/

Availability: North America