

# MARPOL® COPP 20.2

Polypropylene Copolymer  
Marco Polo International, Inc.

Message:

Applications: Automotive interiors, consumer products, durables, and housewares  
FDA Status: This resin complies with FDA regulation 21 CFR 177.1520 (c)3.1a, and may be used as articles or components of articles intended for packaging or holding food, except during cooking.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
Uses	Automotive Interior Parts		
	Consumer Applications		
	Household Goods		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	91		ASTM D785
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup> (Yield)	24.8	MPa	ASTM D638
Flexural Modulus			ASTM D790
Secant <sup>2</sup>	1210	MPa	
Tangent <sup>3</sup>	1340	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	37	J/m	
0°C	53	J/m	
23°C	120	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	107	°C	
1.8 MPa, Unannealed	55.6	°C	
NOTE			
1.	50 mm/min		
2.	1.3 mm/min		

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