



# MARPOL® COPP 20.4

Marco Polo International, LLC - Polypropylene Impact Copolymer

Wednesday, November 29, 2023

## General Information

### Product Description

MARPOL COPP 20.4 is a medium impact strength copolymer resin designed for injection-molded automotive applications requiring medium flow rate.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Impact Modifier		
Features	• Impact Copolymer • Impact Modified	• Medium Flow • Medium Impact Resistance	
Uses	• Automotive Applications • Compounding	• Consumer Applications • Toys	
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Compounding	• Injection Molding	

## ASTM & ISO Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>2</sup> (Yield)	22.8	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Yield)	5.8	%	ASTM D638
Flexural Modulus			
--	1160	MPa	
1% Secant <sup>3</sup>	1170	MPa	ASTM D790A
1% Secant <sup>4</sup>	1340	MPa	ASTM D790B
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
--	160	J/m	
-18°C	43	J/m	ASTM D256A
23°C	170	J/m	ASTM D256A
Gardner Impact <sup>5</sup> (-29°C, 3.18 mm)	25.0	J	ASTM D5420
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness	86		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	82.2	°C	

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### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

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<sup>2</sup> 51 mm/min

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<sup>3</sup> 1.3 mm/min

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<sup>4</sup> 13 mm/min

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<sup>5</sup> Geometry GC