



# MARPOL® COPP 50.3.0

Marco Polo International, LLC - Polypropylene Impact Copolymer

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## General Information

### Product Description

MARPOL® CoPP 50.3.0 is a medium to high impact polypropylene copolymer resin with a good balance of stiffness and toughness. It is ideal for injection molding applications of large consumer and industrial parts that require a high melt flow rate. This resin also exhibits good processability, mold release, surface finish, stability and colorability.

Recommended Applications: Automotive and consumer applications, household goods, containers, tool boxes and totes.

### General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Colorability • Good Impact Resistance • Good Mold Release	• Good Processability • Good Stability • Good Surface Finish	• High Flow • Impact Copolymer
Uses	• Automotive Applications • Consumer Applications	• Containers • Household Goods	• Industrial Parts • Tool/Tote Box
Processing Method	• 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)	50	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	20.4	MPa	ASTM D638
Tensile Elongation (Yield)	3.8	%	ASTM D638
Flexural Modulus - 1% Secant	1050	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	120	J/m	ASTM D256A
Gardner Impact (-29°C)	22.9	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	96.1	°C	ASTM D648

### Notes

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