



MARPOL® COPP 18.3

Marco Polo International, LLC - Polypropylene Impact Copolymer

Wednesday, August 16, 2023

General Information

Product Description

MARPOL® COPP18.3 is a fully formulated impact polypropylene copolymer that is available in pellet form. It is designed for injection molding applications and offers excellent cold temperature impact resistance and stiffness/impact balance.

Recommended Applications: Caps, closures, containers and crates

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• High Impact Resistance	• High Stiffness	• Impact Copolymer
Uses	• Caps	• Containers	
	• Closures	• Crates	
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.900	g/cm ³	ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	18	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	22.8	MPa	ASTM D638
Tensile Elongation (Yield)	5.0	%	ASTM D638
Flexural Modulus - 1% Secant ²	1170	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	102	°C	ASTM D648

Notes

¹ Typical properties: these are not to be construed as specifications.

² 1.3 mm/min