MARPOL® COPP 8.4.0

Marco Polo International, LLC - Polypropylene Impact Copolymer

Tuesday, December 5, 2023

General Information

Product Description

MARPOL® COPP 8.4.0 is a high impact, high stiffness medium melt flow copolymer. This resin is designed for injection molding applications that require faster molding cycles.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Fast Molding Cycle • High Impact Resistance	• High Stiffness • Impact Copolymer	• Medium Flow
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.900	g/cm³	ASTM D792
Melt Mass-Flow Rate (230°C/2.16 kg)	8.0	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	25.5	MPa	ASTM D638
Tensile Elongation (Yield)	5.0	%	ASTM D638
Flexural Modulus - 1% Secant			
-- [2]	1370	MPa	ASTM D790A
-- [3]	1590	MPa	ASTM D790B
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	260	J/m	ASTM D256
Gardner Impact (-29°C)	23.4	J	ASTM D5420
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	111	°C	

Notes

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

[2] 1.3 mm/min

[3] 13 mm/min

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