MARPOL® COPP 10.2.0

Marco Polo International, LLC - Polypropylene Impact Copolymer

Wednesday, January 3, 2024

General Information

Product Description

MARPOL® COPP 10.2.0 is a medium impact copolymer of polypropylene for use in injection molding applications. This resin has a good balance of physical properties and excellent dimensional stability.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Dimensional Stability	• Impact Copolymer	• Medium Impact Resistance
Uses	• Battery Cases	• Lids	
Processing Method	• Injection Molding		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	23.4	MPa	ASTM D638
Tensile Elongation (Yield)	6.0	%	ASTM D638
Flexural Modulus - 1% Secant	1030	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
0°C	80	J/m	
23°C	110	J/m	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	106		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	85.0	°C	

Notes

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