

MARPOL® COPP 50.3.0

Marco Polo International, LLC - Polypropylene Impact Copolymer

Monday, December 4, 2023

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.

Material Status	Commercial: Active			
Availability	 Africa & Middle East Asia Pacific	 Europe Latin America	North America	
Features	Good ColorabilityGood Impact ResistanceGood Mold Release	Good ProcessabilityGood StabilityGood Surface Finish	High FlowImpact Copolymer	
Uses	Automotive ApplicationsConsumer Applications	 Containers Household Goods	Industrial PartsTool/Tote Box	
Processing Method	Injection Molding			

ASTM & ISO Properties ¹					
Physical	Nominal Value	Unit	Test Method		
Density	0.900	g/cm ³	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			ASTM D648		
0.45 MPa, Unannealed	96.1	°C			

Notes

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



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