



MARPOL® HDB 501 Powder

Marco Polo International, LLC - High Density Polyethylene

Wednesday, July 12, 2023

General Information

Product Description

MARPOL® HDP 501 Powder comes in powder form and can - in principle - be used in food contact applications in the USA (FDA) and Canada (HBP). Migration and use limitations may apply.

Applications: Compounding, industrial parts, pallets and large foam parts suitable for food packaging.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Food Contact Acceptable	• High Density	
Uses	• Compounding • Food Packaging	• Industrial Parts • Pallets	
Agency Ratings	• FDA Food Contact	• HPB (Canada) Food Contact	
Forms	• Powder		
Processing Method	• Blow Molding • Blown Film	• Compounding • Extrusion	

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.945 to 0.947	g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	0.020 to 0.080	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	26.2	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Flexural Modulus	1210	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	530	J/m	ASTM D256
Additional Information	Nominal Value	Unit	
Blow Molding Temperature	188 to 232	°C	

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	193 to 249	°C

Notes

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