

MARPOL® Homo 4.5

Marco Polo International, LLC - Polypropylene Homopolymer

Thursday, January 4, 2024

General Information

Product Description

Additives: None

Recommended Applications: Slit film, monofilament, and fibrillated tape applications requiring improved process stability.

Homo 4.5 complies with all applicable FDA regulations for food contact applications.

Material Status	Commercial: Active		
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America
eatures	Additive Free	Food Contact Acceptable	 Homopolymer
Ises	• Film	Monofilaments	• Tape
Agency Ratings	FDA Food Contact		

ASTM & ISO Properties ¹				
Physical	Nominal Value	Unit	Test Method	
Density	0.905	g/cm ³	ASTM D1505	
Melt Mass-Flow Rate (230°C/2.16 kg)	4.1	g/10 min	ASTM D1238	
Mechanical	Nominal Value	Unit	Test Method	
Tensile Modulus	1520	MPa	ASTM D638	
Tensile Strength (Yield)	34.5	MPa	ASTM D638	
Tensile Elongation (Yield)	12	%	ASTM D638	
Flexural Modulus	1380	MPa	ASTM D790	
Impact	Nominal Value	Unit	Test Method	
Notched Izod Impact (23°C)	32	J/m	ASTM D256A	
Unnotched Izod Impact (23°C)	910	J/m	ASTM D4812	
Thermal	Nominal Value	Unit	Test Method	
Deflection Temperature Under Load			ASTM D648	
0.45 MPa, Unannealed	107	°C		
Melting Temperature	73.9	°C		

Notes

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



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