



MARPOL® Homo 12.NA

Marco Polo International, LLC - Polypropylene Homopolymer

Monday, October 30, 2023

General Information

Product Description

Additives: Nucleation and Antistat

Recommended Applications: Caps, closures, and thin wall containers

Homo 12.NA has passed USP Class VI testing, an all ingredients meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada). Homo 12.NA complies with all applicable FDA regulations for food contact applications.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Antistatic • Nucleating Agent		
Features	• Antistatic • Food Contact Acceptable • Homopolymer • Nucleated		
Uses	• Caps	• Closures	• Thin-walled Containers
Agency Ratings	• FDA Food Contact	• USP Class VI	

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1720	MPa	ASTM D638
Tensile Strength (Yield)	37.2	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	1590	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	27	J/m	ASTM D256A
Unnotched Izod Impact (23°C)	850	J/m	ASTM D4812
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (A-Scale)	107		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	127	°C	ASTM D648
Melting Temperature	166	°C	DSC

Notes

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