MARPOL® Homo 20.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 20.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		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm³	ASTM D1505
Melt Mass-Flow Rate (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1790	MPa	ASTM D638
Tensile Strength (Yield)	37.9	MPa	ASTM D638
Tensile Elongation (Yield)	13	%	ASTM D638
Flexural Modulus	1520	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	27	J/m	ASTM D256A
Unnotched Izod Impact (23°C)	1100	J/m	ASTM D4812
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	107		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	127	°C	
Melting Temperature	166	°C	DSC

Notes

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

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