MARPOL® Homo 12.0

Marco Polo International, LLC - Polypropylene Homopolymer

Tuesday, November 7, 2023

General Information

Product Description

Additives: None

Recommended Applications: Injection molding of house wares, utility boxes and containers, as well as general purpose extrusion.

Homo 12.0 complies with all applicable FDA regulations and may be used under those provisions for food contact applications.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Additive Free	• Food Contact Acceptable	• Homopolymer
Uses	• Containers • General Purpose	• Household Goods • Tool/Tote Box	
Agency Ratings	• FDA Food Contact		
Processing Method	• Extrusion	• Injection Molding	

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)	12	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1520	MPa	ASTM D638
Tensile Strength (Yield)	33.1	MPa	ASTM D638
Tensile Elongation (Yield)	12	%	ASTM D638
Flexural Modulus	1520	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C)	32	J/m	ASTM D256A
Unnotched Izod Impact (23°C)	960	J/m	ASTM D4812
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	103		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	121	°C	
Melting Temperature	166	°C	DSC

Notes

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