



MARPOL® Homo 18.F

Marco Polo International, LLC - Polypropylene Homopolymer

Monday, December 4, 2023

General Information

Product Description

Additives: None

Recommended Applications: Staple fibers and bulk continuous filament (BCF) yarns.

Homo 18.F complies with all applicable FDA regulations for food contact.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Additive Free	• Food Contact Acceptable	• Homopolymer
Uses	• BCF Yarn	• Filaments	• Staple Fibers
Agency Ratings	• FDA Food Contact		

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)	18	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1650	MPa	ASTM D638
Tensile Elongation (Yield)	65	%	ASTM D638
Flexural Modulus	1520	MPa	ASTM D790
Flexural Stiffness	1.21	GPa	ASTM D790
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 0.45 MPa, Unannealed	116	°C	ASTM D648
Vicat Softening Temperature	150 to 155	°C	ASTM D1525
Melting Temperature	166	°C	DSC
Additional Information	Nominal Value	Unit	Test Method
Tenacity	3.20	g/denier	ASTM D3218

Notes

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