



MARPOL® LDF 720-CSB

Marco Polo International, LLC - Low Density Polyethylene

Thursday, January 4, 2024

General Information

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Antiblock: 1500 ppm	• Slip: 750 ppm	
Features	• Antiblocking • Food Contact Acceptable	• Low Density • Slip	
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.1a		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	1.8	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Secant Modulus - 1% Secant, MD	179	MPa	ASTM D882
Secant Modulus - 1% Secant, TD	207	MPa	ASTM D882
Tensile Strength - MD (Yield)	10.3	MPa	ASTM D882
Tensile Strength - TD (Yield)	11.0	MPa	ASTM D882
Tensile Strength - MD (Break)	27.6	MPa	ASTM D882
Tensile Strength - TD (Break)	23.4	MPa	ASTM D882
Tensile Elongation - MD (Break)	300	%	ASTM D882
Tensile Elongation - TD (Break)	500	%	ASTM D882
Dart Drop Impact ²	90	g	ASTM D1709
Elmendorf Tear Strength - MD	360	g	ASTM D1922
Elmendorf Tear Strength - TD	200	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	100	°C	ASTM D1525
Optical	Nominal Value	Unit	Test Method
Gloss	70		ASTM D2457
Haze	5.00	%	ASTM D1003

Notes

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

² F50