



# MARPOL® LDF 700

Marco Polo International, LLC - Low Density Polyethylene

Thursday, December 21, 2023

## General Information

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Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	

## ASTM & ISO Properties<sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	0.25	g/10 min	ASTM D1238
Environmental Stress-Cracking Resistance (ESCR) 100% Igepal, F0	168	hr	ASTM D1693
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	9.65	MPa	ASTM D638
Tensile Strength (Break)	17.9	MPa	ASTM D638
Tensile Elongation (Yield)	100	%	ASTM D638
Tensile Elongation (Break)	750	%	ASTM D638
Films	Nominal Value	Unit	Test Method
Tensile Strength - MD (Yield)	20.7	MPa	ASTM D882
Tensile Elongation - MD (Break)	300	%	ASTM D882
Tensile Elongation - TD (Break)	450	%	ASTM D882
Dart Drop Impact <sup>2</sup>	220	g	ASTM D1709
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	42		ASTM D2240
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	-75.0	°C	ASTM D882

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> F50