



MARPOL® LL6F 803

Marco Polo International, LLC - Linear Low Density Polyethylene

Monday, December 4, 2023

General Information

Product Description

Description: MARPOL® LL6F 803 is a hexene LLDPE cast film resin with excellent tensile, stiffness and toughness properties. This resin also displays superior drawability and is versatile in packaging applications.

Recommended Applications

Packaging films, cast film and cast stretch film

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Drawdown • Good Stiffness	• Good Toughness • Hexene Comonomer	• High Tensile Strength
Uses	• Cast Film	• Film	• Packaging
Processing Method	• Cast Film		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	3.2	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Secant Modulus - 1% Secant, MD	117	MPa	ASTM D882
Secant Modulus - 1% Secant, TD	124	MPa	ASTM D882
Tensile Strength - MD (Yield)	6.89	MPa	ASTM D882
Tensile Strength - TD (Yield)	6.76	MPa	ASTM D882
Tensile Strength - MD (Break)	58.6	MPa	ASTM D882
Tensile Strength - TD (Break)	36.5	MPa	ASTM D882
Tensile Elongation - MD (Break)	560	%	ASTM D882
Tensile Elongation - TD (Break)	830	%	ASTM D882
Dart Drop Impact	90	g	ASTM D1709A
Elmendorf Tear Strength - MD	250	g	ASTM D1922
Elmendorf Tear Strength - TD	570	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	91		ASTM D2457
Haze	1.70	%	ASTM D1003

Notes

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