

MARPOL® LL6F 803

Marco Polo International, LLC - Linear Low Density Polyethylene

Monday, December 4, 2023

General Information

Product Description

Recommended Applications

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.

General				
Material Status	Commercial: Active			
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America	
Features	Good DrawdownGood Stiffness	Good ToughnessHexene Comonomer	High Tensile Strength	
Uses	Cast Film	• Film	 Packaging 	
Processing Method	Cast Film			

ASTM & ISO Properties ¹					
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.



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