



MARPOL® LL8F 805

Marco Polo International, LLC - Linear Low Density Polyethylene

Sunday, July 23, 2023

General Information

Product Description

Product Features:

Good stiffness, easy processability, moderate toughness, moderate strength and excellent seal properties

Recommended Applications:

Heavy duty shipping sacks, industrial packaging, industrial liners, construction film and automatic packaging film

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Good Processability • Good Stiffness	• Low Density • Octene Comonomer	
Uses	• Film • Industrial Applications	• Liners • Packaging	

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.927	g/cm ³	ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	0.50	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Secant Modulus - 1% Secant, MD			ASTM D882
25 µm	234	MPa	
76 µm	230	MPa	
Secant Modulus - 1% Secant, TD			ASTM D882
25 µm	251	MPa	
76 µm	260	MPa	
Tensile Strength - MD			ASTM D882
Yield, 25 µm	11.0	MPa	
Yield, 76 µm	12.4	MPa	
Tensile Strength - TD			ASTM D882
Yield, 25 µm	12.4	MPa	
Yield, 76 µm	12.4	MPa	
Tensile Strength - MD			ASTM D882
Break, 25 µm	42.7	MPa	
Break, 76 µm	41.4	MPa	
Tensile Strength - TD			ASTM D882
Break, 25 µm	33.1	MPa	
Break, 76 µm	35.2	MPa	
Tensile Elongation - MD			ASTM D882
Break, 25 µm	490	%	
Break, 76 µm	630	%	

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Films	Nominal Value	Unit	Test Method
Tensile Elongation - TD			ASTM D882
Break, 25 µm	710	%	
Break, 76 µm	680	%	
Dart Drop Impact			ASTM D1709A
25 µm	160	g	
76 µm	450	g	
Elmendorf Tear Strength - MD			ASTM D1922
25 µm	300	g	
76 µm	1100	g	
Elmendorf Tear Strength - TD			ASTM D1922
25 µm	750	g	
76 µm	1500	g	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	220	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°, 25.4 µm	50		
45°, 76.2 µm	61		
Haze			ASTM D1003
25.4 µm	14.0	%	
76.2 µm	17.0	%	

Notes

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