

MARPOL® P1902

Polyolefin Plastomer

Marco Polo International, Inc.

Message:

MARPOL P1902, Polyolefin Plastomer is an ethylene alpha-olefin resin designed for use in a variety of demanding packaging applications including high-speed and form-fill seal packaging. This resin offers excellent ultimate hot tack strength and low temperature seal initiation, even through contamination in the package.

General Information			
Features	Thermal viscosity strength		
Uses	Packaging		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.902	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
secant modulus			ASTM D882
2% secant, MD	91.7	MPa	ASTM D882
2% secant, TD	92.4	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	7.24	MPa	ASTM D882
TD: Yield	6.89	MPa	ASTM D882
MD: Fracture	58.6	MPa	ASTM D882
TD: Fracture	44.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	620	%	ASTM D882
TD: Fracture	630	%	ASTM D882
Dart Drop Impact	830	g	ASTM D1709B
Elmendorf Tear Strength			ASTM D1922
MD	550	g	ASTM D1922
TD	720	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	86.1	°C	ASTM D1525
Optical	Nominal Value		Test Method
Gloss	141		ASTM D2457

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