

NOVAPOL® LF-0422-F

Low Density Polyethylene

NOVA Chemicals

Message:

NOVAPOL® LF-0422-F is a low density polyethylene material. This product is available in North America and is processed by co-extrusion or cast film.

NOVAPOL® The main features of the LF-0422-F are:

Good processability

Homopolymer

Transparency

Typical application areas include:

packing

Movie

General Information			
Features	Homopolymer		
	Workability, good		
	Definition, high		
Uses	Packaging		
	Films		
	Food packaging		
Processing Method	Co-extrusion molding		
	cast film		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.2	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (Cast Film)	0.26		ASTM D1894
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
secant modulus			ASTM D882
1% sectioning, MD: 38 µm, cast film	142	MPa	ASTM D882
1% sectioning, TD: 38 µm, cast film	171	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: yield, 38 µm, extruded film	10.3	MPa	ASTM D882
TD: yield, 38 µm, extruded film	9.40	MPa	ASTM D882
MD: Fracture, 38 µm, extruded film	18.9	MPa	ASTM D882
TD: Fracture, 38 µm, extruded film	11.9	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 38 µm, extruded film	290	%	ASTM D882

TD: Fracture, 38 µm, extruded film	530	%	ASTM D882
Elmendorf Tear Strength			ASTM D1922
MD: 38 µm, cast film	320	g	ASTM D1922
TD: 38 µm, cast film	320	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45 °, 38.0 µm, cast film)	89		ASTM D2457
Haze (38.0 µm, cast film)	2.6	%	ASTM D1003

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