



SURPASS® FPs317-A

NOVA Chemicals - Linear Low Density Polyethylene

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antioxidant		
Features	• Antioxidant • Food Contact Acceptable • Good Optical Properties	• Good Tear Strength • Low Density • Low Gel	• Octene Comonomer • Puncture Resistant
Uses	• Cast Film	• Laminates	• Stretch Wrap
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.2a		
Forms	• Pellets		
Processing Method	• Coextrusion	• Film Extrusion	

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.919		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Secant Modulus - 1% Secant, MD (0.79 mil, Cast Film)	14500	psi	ASTM D882
Secant Modulus - 1% Secant, TD (0.79 mil, Cast Film)	17400	psi	ASTM D882
Tensile Strength - MD (Yield, 0.79 mil, Cast Film)	1090	psi	ASTM D882
Tensile Strength - TD (Yield, 0.79 mil, Cast Film)	1020	psi	ASTM D882
Tensile Strength - MD (Break, 0.79 mil, Cast Film)	4640	psi	ASTM D882
Tensile Strength - TD (Break, 0.79 mil, Cast Film)	3630	psi	ASTM D882
Tensile Elongation - MD (Break, 0.79 mil, Cast Film)	470	%	ASTM D882
Tensile Elongation - TD (Break, 0.79 mil, Cast Film)	780	%	ASTM D882
Elmendorf Tear Strength - MD (0.79 mil, Cast Film)	380	g	ASTM D1922
Elmendorf Tear Strength - TD (0.79 mil, Cast Film)	540	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 0.787 mil, Cast Film)	85		ASTM D2457
Haze (0.787 mil, Cast Film)	0.800	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture - Cast Film (0.8 mil)	18.7	in-lb/mil	Internal Method
Ultimate Elongation - Cast Film (0.8 mil)	360	%	Internal Method

Notes

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