



SURPASS® HPs900-C

NOVA Chemicals - Linear Low Density Polyethylene

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antioxidant	• Processing Aid	
Features	• Antioxidant	• High Clarity	• Low Gel • Octene Comonomer
	• Food Contact Acceptable	• High Gloss	
	• Good Processability	• Low Density	
Uses	• Film	• Laminates	
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.2a		
Forms	• Pellets		
Processing Method	• Coextrusion	• Film Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.919		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Secant Modulus - 1% Secant, MD (0.98 mil, Blown Film)	19600	psi	ASTM D882
Secant Modulus - 1% Secant, TD (0.98 mil, Blown Film)	22500	psi	ASTM D882
Tensile Strength - MD (Yield, 0.98 mil, Blown Film)	1310	psi	ASTM D882
Tensile Strength - TD (Yield, 0.98 mil, Blown Film)	1310	psi	ASTM D882
Tensile Strength - MD (Break, 0.98 mil, Blown Film)	7110	psi	ASTM D882
Tensile Strength - TD (Break, 0.98 mil, Blown Film)	6240	psi	ASTM D882
Tensile Elongation - MD (Break, 0.98 mil, Blown Film)	520	%	ASTM D882
Tensile Elongation - TD (Break, 0.98 mil, Blown Film)	750	%	ASTM D882
Dart Drop Impact (0.98 mil, Blown Film)	460	g	ASTM D1709A
Elmendorf Tear Strength - MD (0.98 mil, Blown Film)	280	g	ASTM D1922
Elmendorf Tear Strength - TD (0.98 mil, Blown Film)	450	g	ASTM D1922
Seal Initiation Temperature (0.98 mil, Blown Film)	212	°F	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 0.984 mil, Blown Film)	79		ASTM D2457
Haze (0.984 mil, Blown Film)	4.00	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture - Blown Film (1.0 mil)	18.9	in-lb/mil	Internal Method

Notes

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