



SURPASS® HPs167-AB

NOVA Chemicals - High Density Polyethylene

Tuesday, November 5, 2019

General Information

General

Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Antioxidant		
Features	• Antioxidant • Barrier Resin • Food Contact Acceptable	• High Density • High Stiffness • Homopolymer	• Low Gel
Uses	• Film	• Food Packaging	
Agency Ratings	• FDA 21 CFR 177.1520(c) 2.2		
Processing Method	• Coextrusion	• Film Extrusion	

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.969		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	1.2	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Secant Modulus - 1% Secant, MD (1.5 mil, Blown Film)	160000	psi	ASTM D882
Secant Modulus - 1% Secant, TD (1.5 mil, Blown Film)	194000	psi	ASTM D882
Tensile Strength - MD (Yield, 1.5 mil, Blown Film)	3920	psi	ASTM D882
Tensile Strength - TD (Yield, 1.5 mil, Blown Film)	3630	psi	ASTM D882
Elmendorf Tear Strength - MD (1.5 mil, Blown Film)	22	g	ASTM D1922
Elmendorf Tear Strength - TD (1.5 mil, Blown Film)	230	g	ASTM D1922
Oxygen Transmission Rate (73°F, 0% RH)	30	cm ³ /100 in ² /24 hr	ASTM D3985
Water Vapor Transmission Rate (100°F, 100% RH)	2.8	g·mil/100in ² /atm/24 hr	ASTM F1249
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture ² (1.5 mil)	356	ft·lb/in	Internal Method

Notes

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

² Blown Film