SURPASS® FPs236-A

NOVA Chemicals - High 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 • Low Gel	• Medium Density • Octene Comonomer
Uses	• Cast Film	• Laminates	
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	• Cast Film	• Coextruded Film	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.938		ASTM D792
Melt Mass-Flow Rate (190°C/2.16 kg)	2.9	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	1	mil	
Secant Modulus - 1% Secant, MD (0.98 mil, Cast Film)	43500	psi	ASTM D882
Secant Modulus - 1% Secant, TD (0.98 mil, Cast Film)	53700	psi	ASTM D882
Tensile Strength - MD (Yield, 0.98 mil, Cast Film)	2060	psi	ASTM D882
Tensile Strength - TD (Yield, 0.98 mil, Cast Film)	2190	psi	ASTM D882
Tensile Strength - MD (Break, 0.98 mil, Cast Film)	6530	psi	ASTM D882
Tensile Strength - TD (Break, 0.98 mil, Cast Film)	5080	psi	ASTM D882
Tensile Elongation - MD (Break, 0.98 mil, Cast Film)	600	%	ASTM D882
Tensile Elongation - TD (Break, 0.98 mil, Cast Film)	900	%	ASTM D882
Dart Drop Impact (0.98 mil, Cast Film)	40	g	ASTM D1709A
Elmendorf Tear Strength - MD (0.98 mil, Cast Film)	40	g	ASTM D1922
Elmendorf Tear Strength - TD (0.98 mil, Cast Film)	350	g	ASTM D1922
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 0.984 mil, Cast Film)	80		ASTM D2457
Haze (0.984 mil, Cast Film)	5.00	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Low Friction Puncture [2] (1.0 mil)	450	ft·lb/in	Internal Method

Notes

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

[2] Cast Film