NOVAPOL® LF-Y320 Series

Low Density Polyethylene

NOVA Chemicals

Message:

LF-Y320-A (Barefoot resin): Industrial packaging, liners, shrink film, blends with LLDPE
LF-Y320-C (Antiblock only): Industrial packaging, liners, shrink film, blends with LLDPE

General Information			
Additive	LF-Y320-C: anti-caking agent		
Features	Ultra high toughness High strength Anti-caking property Good melt strength Compliance of Food Exposure		
Uses	Packaging Films Lining Industrial application Mixing		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1 2		
Processing Method	Film extrusion		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	0.920	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	g/10 min	ASTM D1238
Films	**Nominal Value**	**Unit**	**Test Method**
Film Thickness - Tested	38	µm	
Film Thickness - Recommended / Available	> 38µm		
secant modulus			ASTM D882
1% secant, MD: 38 µm, blown film	190	MPa	ASTM D882
1% secant, TD: 38 µm, blown film	230	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm, blown film	16.0	MPa	ASTM D882
TD: Yield, 38 µm, blown film	10.0	MPa	ASTM D882
MD: Broken, 38 µm, blown film	30.0	MPa	ASTM D882
TD: Broken, 38 µm, blown film	21.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 38 µm, blown film	110	%	ASTM D882
TD: Broken, 38 µm, blown film	450	%	ASTM D882

Dart Drop Impact (38 µm, Blown Film)	160	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 38 µm, blown film	320	g	ASTM D1922
TD: 38 µm, blown film	120	g	ASTM D1922
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 38.0 µm, Blown Film)	20		ASTM D2457
Haze (38.0 µm, Blown Film)	30	%	ASTM D1003
Additional Information	**Nominal Value**	**Unit**	**Test Method**
Low Friction Puncture - Blown Film (38.0 µm)	90.0	J/cm	Internal method
Extrusion instructions			

Optimum Blow-up Ratio: 2:1 to 3:1

Recommended distributors for this material

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