

NOVAPOL® TF-Y822 Series

Linear Low Density Polyethylene

NOVA Chemicals

Message:

TF-Y822-BP (750 ppm Slip, 3150 ppm Antiblock): Industrial packaging, high strength liners

TF-Y822-CP (6000 ppm Antiblock): Heavy duty sacks, high strength packaging

General Information			
Additive	TF-Y822-CP: Antiblock (6000 ppm)		
	TF-Y822-BP: Antiblock (3150 ppm); Slip (750 ppm)		
Features	Antiblocking		
	Food Contact Acceptable		
	Good Stiffness		
	Good Toughness		
	Hexene Comonomer		
	Low Density		
	Machinable		
	Slip		
Uses	Heavy-duty Bags		
	Industrial Applications		
	Liners		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.921	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	ASTM D882
Secant Modulus			
1% Secant, MD : 25 µm, Blown Film	230	MPa	
1% Secant, TD : 25 µm, Blown Film	280	MPa	ASTM D882
Tensile Strength			
MD : Yield,25 µm, Blown Film	12.0	MPa	
TD : Yield,25 µm, Blown Film	12.0	MPa	
MD : Break, 25 µm,Blown Film	49.0	MPa	
TD : Break, 25 µm,Blown Film	42.0	MPa	

Tensile Elongation			ASTM D882
MD : Break, 25 µm,Blown Film	560	%	
TD : Break, 25 µm,Blown Film	810	%	
Dart Drop Impact (25 µm, Blown Film)	130	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm, Blown Film	350	g	
TD : 25 µm, Blown Film	540	g	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	53		ASTM D2457
Haze (25.0 µm, Blown Film)	13	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Low Friction Puncture - Blown Film (25.0 µm)	430	J/cm	Internal Method

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