NOVAPOL® TF-0338-E

Linear Medium Density Polyethylene

NOVA Chemicals

Message:

NOVAPOL® TF-0338-E is a Linear Medium Density Polyethylene material. It is available in North America for film extrusion. Important attributes of NOVAPOL® TF-0338-E are: Antioxidant Food Contact Acceptable Good Stiffness High Gloss Typical applications include: Additive/Masterbatch Film Food Contact Applications

General Information			
Additive	Antioxidant		
Features	Antioxidant		
	Food Contact Acceptable		
	Good Stiffness		
	High Gloss		
Uses	Blending		
	Cast Film		
	Compounding		
	Film		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	3.5	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	μm	
Secant Modulus			ASTM D882
1% Secant, MD : 20 µm, Cast Film	320	MPa	
1% Secant, TD : 20 µm, Cast Film	430	MPa	
Tensile Strength			ASTM D882
MD : Yield,20 µm, Cast Film	17.0	MPa	
TD : Yield,20 µm, Cast Film	18.0	MPa	
MD : Break, 20 µm,Cast Film	39.0	MPa	

TD : Break, 20 μm,Cast Film 28.0 MPa Tensile Elongation ASTM D882 MD : Break, 20 μm,Cast Film 670 % TD : Break, 20 μm,Cast Film 900 % TD : Break, 20 μm,Cast Film 900 % Elmendorf Tear Strength ASTM D1922 MD : 20 μm, Cast Film 27 g TD : 20 μm, Cast Film 200 g Optical Nominal Value Unit Test Method Gloss (45°, 20.0 μm, Cast Film) 85 ASTM D2457 Haze (20.0 μm, Cast Film) 3.0 % ASTM D1003 Additional Information Nominal Value Unit Test Method Low Friction Puncture - Cast Film (20.0 μm) 140 J/cm Internal Method				
MD : Break, 20 μm,Cast Film670%TD : Break, 20 μm,Cast Film900%Elmendorf Tear StrengthASTM D1922MD : 20 μm, Cast Film27gTD : 20 μm, Cast Film200gOpticalNominal ValueUnitTest MethodGloss (45°, 20.0 μm, Cast Film)85ASTM D2457Haze (20.0 μm, Cast Film)3.0%ASTM D1003Additional InformationNominal ValueUnitTest Method	TD : Break, 20 µm,Cast Film	28.0	MPa	
TD : Break, 20 μm,Cast Film900%Elmendorf Tear StrengthASTM D1922MD : 20 μm, Cast Film27gTD : 20 μm, Cast Film200gOpticalNominal ValueUnitTest MethodGloss (45°, 20.0 μm, Cast Film)85ASTM D2457Haze (20.0 μm, Cast Film)3.0%ASTM D1003Additional InformationNominal ValueUnitTest Method	Tensile Elongation			ASTM D882
Elmendorf Tear StrengthASTM D1922MD : 20 μm, Cast Film27gTD : 20 μm, Cast Film200gOpticalNominal ValueUnitGloss (45°, 20.0 μm, Cast Film)85ASTM D2457Haze (20.0 μm, Cast Film)3.0%ASTM D1003Additional InformationNominal ValueUnitTest Method	MD : Break, 20 µm,Cast Film	670	%	
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TD: 20 μm, Cast Film200gOpticalNominal ValueUnitTest MethodGloss (45°, 20.0 μm, Cast Film)85ASTM D2457Haze (20.0 μm, Cast Film)3.0%ASTM D1003Additional InformationNominal ValueUnitTest Method	Elmendorf Tear Strength			ASTM D1922
OpticalNominal ValueUnitTest MethodGloss (45°, 20.0 µm, Cast Film)85ASTM D2457Haze (20.0 µm, Cast Film)3.0%ASTM D1003Additional InformationNominal ValueUnitTest Method	MD : 20 µm, Cast Film	27	g	
Gloss (45°, 20.0 µm, Cast Film)85ASTM D2457Haze (20.0 µm, Cast Film)3.0%ASTM D1003Additional InformationNominal ValueUnitTest Method	TD : 20 µm, Cast Film	200	g	
Haze (20.0 µm, Cast Film)3.0%ASTM D1003Additional InformationNominal ValueUnitTest Method	Optical	Nominal Value	Unit	Test Method
Additional Information Nominal Value Unit Test Method	Gloss (45°, 20.0 µm, Cast Film)	85		ASTM D2457
	Haze (20.0 µm, Cast Film)	3.0	%	ASTM D1003
Low Friction Puncture - Cast Film (20.0 µm) 140 J/cm Internal Method	Additional Information	Nominal Value	Unit	Test Method
	Low Friction Puncture - Cast Film (20.0 µm)	140	J/cm	Internal Method

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