

Flexathene® TP38NC01X01

Polyolefin
LyondellBasell Industries

Message:

FLEXATHENE TP 38NC01X01 is a polypropylene-ethylene copolymer formulated for film applications that require medium stiffness, excellent impact strength, and high heat resistance. The resin is produced in a proprietary gas-phase process that yields a product with greater physical properties and more uniform rubber dispersion than melt-blended rubber compounds.

General Information			
Features	Rigid, good		
	Impact resistance, good		
	Heat resistance, high		
	Compliance of Food Exposure		
Uses	Films		
	cast film		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
	cast film		

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	1.0	g/10 min	ASTM D1238

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
secant modulus			ASTM D882
1% secant, MD: 25 µm	469	MPa	ASTM D882
1% secant, TD: 25 µm	352	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	14.5	MPa	ASTM D882
TD: Yield, 25 µm	11.7	MPa	ASTM D882
MD: Break, 25 µm	86.9	MPa	ASTM D882
TD: Break, 25 µm	43.4	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	530	%	ASTM D882
TD: Break, 25 µm	720	%	ASTM D882
Dart Drop Impact (25 µm, Cast Film)	1400	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	140	g	ASTM D1922

TD : 25 μm	660	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45, 25.4 μm, cast film)	59		ASTM D2457
Haze (25.4 μm, Cast Film)	8.3	%	ASTM D1003
Additional Information			
Film properties taken from cast film.			
Extrusion	Nominal Value	Unit	
Melt Temperature	193 - 277	°C	

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