

# Alkatuff® 601

Linear Low Density Polyethylene  
Qenos Pty Ltd

## Message:

601 is a hexene copolymer linear low density polyethylene, designed for a variety of film applications. 601 is formulated with antiblock, stabilisation and slip (high slip) additives.

601 is intended for general purpose applications such as liners, garbage, industrial and agricultural films. 601 is not recommended for use in outdoor applications (especially applications where there may be prolonged exposure to sunlight, eg. agricultural films) without the addition of appropriate Hindered Amine based Light Stabilisers (HALS).

601 is suitable for food contact applications and conforms to the requirements of the United States Food and Drug Administration CFR 21 177.1520, paragraph (c), item 3.1.

General Information			
Additive	High smoothness		
	Anti-caking agent		
Features	High smoothness		
	Anti-caking property		
	Compliance of Food Exposure		
	General		
Uses	Films		
	Lining		
	Industrial application		
	Agricultural application		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
	0.13		
Coefficient of Friction (Blown Film)	0.15		ASTM D1894
Films	Nominal Value	Unit	Test Method

Film Thickness - Tested	50	μm	
secant modulus			ASTM D882
2% secant, MD: 28 μm	210	MPa	ASTM D882
2% secant, MD: 50 μm	220	MPa	ASTM D882
2% secant, TD: 28 μm	220	MPa	ASTM D882
2% secant, TD: 50 μm	240	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 28 μm	9.00	MPa	ASTM D882
MD: Yield, 50 μm	10.0	MPa	ASTM D882
TD: Yield, 28 μm	12.0	MPa	ASTM D882
TD: Yield, 50 μm	12.0	MPa	ASTM D882
MD: Broken, 28 μm	28.0	MPa	ASTM D882
MD: Break, 50 μm	34.0	MPa	ASTM D882
TD: Broken, 28 μm	24.0	MPa	ASTM D882
TD: Break, 50 μm	30.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 28 μm	750	%	ASTM D882
MD: Break, 50 μm	1000	%	ASTM D882
TD: Broken, 28 μm	800	%	ASTM D882
TD: Break, 50 μm	1000	%	ASTM D882
Dart Drop Impact			ASTM D1709
28 μm, blown film	130	g	ASTM D1709
50 μm, blown film	240	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 28 μm	310	g	ASTM D1922
MD : 50 μm	590	g	ASTM D1922
TD : 28 μm	510	g	ASTM D1922
TD : 50 μm	980	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
28.0 μm, blown film	72		ASTM D2457
50.0 μm, blown film	74		ASTM D2457
Haze			ASTM D1003
28.0 μm, blown film	8.0	%	ASTM D1003
50.0 μm, blown film	10	%	ASTM D1003

#### Additional Information

Film properties taken from blown film processed at a blow up ratio of 3.5:1.

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