

<b>Grade</b>	<b>Major End Use</b>
LL501	FILM EXTRUSION - GENERAL PURPOSE

<b>Description</b>
LL501 is a hexene linear low density polyethylene copolymer designed for a variety of general purpose film applications. LL501 is formulated with a process stabilisation package but contains no slip or antiblocking additives.

<b>Application</b>
LL501 is intended for general purpose applications such as industrial, agricultural and heavy duty films. LL501 is also ideally suited for use in blending applications. LL501 is not recommended for use in outdoor applications, especially where there may be prolonged exposure to sunlight, eg agricultural films, without the addition of appropriate long term protection.

<b>Specifications</b>
If this product is used for food contact applications, then the user needs to ensure compliance with the requirements of AS2070-1999 and relevant FDA regulations.  When used in accordance with FDA application guidelines, this product meets the requirements of FDA 21 CFR 177.1520 (c) 3.1a and AS2070-1999 section 4.1.1 (a). This product should not be used in applications for holding food during cooking without the required compliance testing. This information is only for the Major End Use described on this Product Data sheet. For further information, please contact your primary Qenos contact.

<b>Safety</b>
Material Safety Data Sheets are available for all Qenos polyethylene grades from Qenos.



<b>Grade</b>
<b>LL501</b>

<b>Physical Properties</b>				
		Test Method <sup>1</sup>	Value <sup>2</sup>	Units
<b><i>Base Polymer Properties</i></b>				
Melt Index @190°C, 2.16kg		ASTM D1238	1.0	g/10 min
Density		ASTM D1505	0.925	g/cm <sup>3</sup>
<b><i>Typical Film Properties</i></b> <i>(50µm film; Blow Ratio 3.5 to 1)</i>				
Haze		ASTM D1003	10	%
Gloss, 45°		ASTM D2457	73	Units
Dart Drop Impact, (F <sub>50</sub> )		ASTM D1709	210	g
Tear Strength	MD	ASTM D1922	4.7	N
	TD		8.6	N
Tensile Strength at Yield	MD	ASTM D882	14	MPa
	TD		15	MPa
Tensile Strength at Break	MD	ASTM D882	46	MPa
	TD		45	MPa
Elongation at Break	MD	ASTM D882	950	%
	TD		1000	%
2% Secant Modulus	MD	ASTM D882	240	MPa
	TD		270	MPa

1. Test procedures may be modified to accommodate operating conditions or facility limitations .
2. Typical values - not to be construed as specifications .

For up to date information, refer to [www.qenos.com](http://www.qenos.com)

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Values quoted for "Alkatuff" polyethylene are the result of tests on representative samples; and the product supplied may not conform in all respects. Qenos Pty Ltd reserves the right to make any improvements or amendments to the composition of any grade or product without alteration to the code number.

In using Qenos Pty Ltd's products; you must establish for yourself the most suitable formulation; production method and control tests; to ensure the uniformity and quality of your product in compliance with all laws.

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