



# Grade

LL501

Major End Use

FILM EXTRUSION - GENERAL PURPOSE

### Description

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

#### Application

Alkatuff LL501 is intended for general purpose applications such as industrial, agricultural and heavy duty films. Alkatuff LL501 is also ideally suited for use in blending applications. The higher stiffness of Alkatuff LL501 can improve film handling in converting and packaging operations. Addition of a UV stabiliser should be considered where the intended application involves intermittent to extended exposure to sunlight.

#### Food Contact Statement

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.

## Safety

Material Safety Data Sheets are available for all Qenos polyethylene grades from Qenos.



Quality ISO 9001

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Physical Properties				
Property		Test Method	Value <sup>1</sup>	Units
Base Polymer Properties				
Melt Index @190°C, 2.16kg		ASTM D1238	1.0	g/10 min
Density		ASTM D1505	0.925	g/cm <sup>3</sup>
Typical Film Properties <sup>₄</sup>				
Haze		ASTM D1003	10	%
Gloss, 45°		ASTM D2457	73	GU
Dart Drop Impact ( $F_{50}$ )		ASTM D1709	210	g
Tear Strength	MD TD	ASTM D1922	4.7 8.6	N N
Tensile Strength at Yield <sup>2</sup>	MD TD	ASTM D882	14 15	MPa MPa
Tensile Strength at Break <sup>2</sup>	MD TD	ASTM D882	46 45	MPa MPa
Elongation at Break <sup>2</sup>	MD TD	ASTM D882	950 1000	% %
2% Secant Modulus <sup>3</sup>	MD TD	ASTM D882	240 270	MPa MPa

1. Typical values - not to be construed as specifications.

2. At 500 mm/min cross head speed.

3. At 20 mm/min cross head speed

 Film properties have been measured on 50µm gauge film extruded at Qenos (2.2:1 blow-up ratio)

For up to date information, refer to www.qenos.com

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