


# Qplast™

## QPMLL 3518B

### Linear Low Density Polyethylene

Qplast™ QPMLL 3518B is a metallocene ethylene-hexene copolymer. It has good processability and performs well in a wide range of general purpose and higher performance cast film applications. Films produced with this grade offer good impact strength, puncture resistance, sealing, and optical properties. TNPP is not intentionally added.

Supplier	
Additive	Antiblock: No; Slip: No; Thermal Stabilizer: Yes
Applications	<ul style="list-style-type: none"> <li>• Artificial Turf</li> <li>• Barrier Food Packaging</li> <li>• Cast Film</li> <li>• Cast Stretch Film</li> <li>• Diaper Backsheet</li> <li>• Food Packaging</li> <li>• Hygiene Film</li> <li>• Packaging Film</li> </ul>

#### Resin Properties

	Typical Value (English)	Typical Value (English)	Test Method
Density	0.918 g/cm <sup>3</sup>	0.918 g/cm <sup>3</sup>	ASTM D792
Melt Index (190°C/2.16 kg)	3.5 g/10 min	3.5 g/10 min	ASTM D1238
Peak Melting Temperature	239 °F	115 °C	Proprietary Method

#### Film Properties

Tensile Strength at Yield MD	1200 psi	8.5 MPa	ASTM D882
Tensile Strength at Yield TD	1100 psi	7.5 MPa	ASTM D882
Tensile Strength at Break MD	10000 psi	68 MPa	ASTM D882
Tensile Strength at Break TD	6500 psi	45 MPa	ASTM D882
Elongation at Break MD	500 %	500 %	ASTM D882
Elongation at Break TD	670 %	670 %	ASTM D882
Secant Modulus MD — 1% Secant	15500 psi	108 MPa	ASTM D882
Secant Modulus TD — 1% Secant	17750 psi	122 MPa	ASTM D882
Dart Drop Impact	145 g	145 g	ASTM D1709A
Elmendorf Tear Strength MD	200 g	200 g	ASTM D1922
Elmendorf Tear Strength TD	490 g	490 g	ASTM D1922
Puncture Force	10 lbf	45 N	Proprietary Method

Puncture Energy	36 in-lb	4.1 J	Proprietary Method
Optical Properties			
Gloss (60°)	88	88	ASTM D2457
Haze	2.3 %	2.3 %	ASTM D1003

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