

Qplast™

QPMML 1918.1

Metallocene Polyethylene

Qplast™ QPMML 1918.1 is a metallocene ethylene-hexene copolymer. It has good processability and performs well in a wide range of general purpose and high performance blown film applications. Films produced with this grade offer good tensile, impact strength, puncture resistance, and sealing properties. Fluoropolymers, or fluorine-containing compounds and TNPP are not intentionally added.

Supplier



Additive

Antiblock: No; Slip: No; Thermal Stabilizer: Yes; Alternative Processing Aid: Yes

Applications

- Agriculture Film
- Bag in Box
- Barrier Food Packaging
- Blown Film
- Blown Stretch Film
- Bread Bags
- Food Packaging
- Form Fill and Seal Packaging
- Freezer Film
- General Packaging
- Heavy Duty Bags
- Industrial Packaging
- Lamination Film
- Multilayer Packaging Film
- Overwrap Film
- Packaging Films
- Premium Trash Bags
- Stand Up Pouches
- Trash Bags
- Trash Can Liners

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Method
Density	0.918 g/cm ³	0.918 g/cm ³	ASTM D792
Melt Index (190°C/2.16kg)	1.0 g/10 min	1.0 g/10 min	ASTM D1238
Peak Melting Temperature	248 °F	120 °C	Proprietary Method

Film Properties

Tensile Strength at Yield MD	1350 psi	9.4 MPa	ASTM D882
Tensile Strength at Yield TD	1400 psi	9.6 MPa	ASTM D882
Tensile Strength at Break MD	8000 psi	55 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	600 %	600 %	ASTM D882
Secant Modulus MD — 1% Secant	23500 psi	165 MPa	ASTM D882
Secant Modulus TD — 1% Secant	26500 psi	182 MPa	ASTM D882
Dart Drop Impact	600 g	600 g	ASTM D1709A
Elmendorf Tear Strength MD	280 g	280 g	ASTM D1922
Elmendorf Tear Strength TD	420 g	420 g	ASTM D1922
Puncture Force	11 lbf	50 N	Proprietary Method
Puncture Energy	34 in-lb	3.8 J	Proprietary Method

Optical Properties

Gloss (45°)	29	29	ASTM D2457
Haze	30 %	30 %	ASTM D1003

Disclaimer

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REV:2024