

Mapolene 4555 is a medium molecular weight, narrow molecular weight distribution resin designed for high speed orientation. Applications include monofilament, slit tape, woven and knitted fabrics and specialty films.

Mapolene 4555

Polyethylene
Specialty Extrusion

Melt Index .55
Density .946

Properties ¹	ASTM	Units	Value
Melt Index (190°C/2.16 kg)	ASTM D1238	g/10 min	.55
Density	ASTM D1505	g/cm ³	.946
Tensile Strength at Yield (2 in/min)	ASTM D638	psi	3200
Elongation @ Break (2 in/min)	ASTM D638	%	>500
Secant Modulus of Elasticity (2 in/min)	ASTM D638	psi	100,000
Flexural Modulus	ASTM D790	psi	115,000

This material meets the Food and Drug Administration requirements of 21CFR 177.1520.

¹Properties will vary and are not to be used for specification purposes.

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