

Mapolene 5405 is an ultra-high molecular weight high density polyethylene resin with good melt strength, excellent stress crack resistance, good rigidity, and excellent impact strength even at low temperatures. Typical blow molded applications for this resin include 55-gallon drums, fuel containers and agricultural chemical tanks.

Mapolene 5405

Polyethylene	HLMI	5.5
HMW Blow Molding	Density	.954

Properties ¹	ASTM	Units	Value
HLMI (190°C/21.6 kg)	ASTM D1238	g/10 min	5.5
Density	ASTM D1505	g/cm ³	.954
Tensile Strength at Yield (2 in/min)	ASTM D638	psi	4200
Elongation at Break (2 in/min)	ASTM D638	%	800
Flexural Modulus	ASTM D790	psi	195,000
ESCR Condition B, F ₅₀ (100% Igepal)	ASTM D1693	h	>1000
Brittleness Temperature	ASTM D 746	°F	<-103

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.