

# COSMOTHENE® F101

Low Density Polyethylene

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

COSMOTHENE® F101 is a Low Density Polyethylene product. It can be processed by extrusion and is available in Asia Pacific. Applications of COSMOTHENE® F101 include bags/liners and film.

Characteristics include:

- Chemical Resistant
- Good Toughness
- Impact Resistant

General Information			
Features	Good Chemical Resistance		
	Good Impact Resistance		
	Good Toughness		
	Low Density		
Uses	Blow Molding Applications		
	Film		
	Heavy-duty Bags		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.921	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	0.25	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	20.6	MPa	ASTM D638
Tensile Elongation (Yield)	700	%	ASTM D638
Apparent Bending Modulus	210	MPa	ASTM D747
Thermal	Nominal Value	Unit	
Melting Temperature	109	°C	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	130 to 150	°C	
Cylinder Zone 2 Temp.	150 to 170	°C	
Cylinder Zone 3 Temp.	160 to 180	°C	
Melt Temperature	170 to 190	°C	
Die Temperature	170 to 190	°C	

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