

# COSMOTHENE F108-5

Low Density Polyethylene

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

COSMOTHENE F108-5 is specially design for excellent shrinkage, toughness and strength. F108-5 is not formulated with slip and antiblocking agent. Shrink film food packaging, heavy duty bag & etc.

General Information			
Features	Good toughness		
	High shrinkage		
Uses	Films		
	Shrinkable film		
	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Forms	Particle		
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)	0.40	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	19.6	MPa	ASTM D638
Tensile Elongation (Break)	700	%	ASTM D638
Apparent Bending Modulus	210	MPa	ASTM D747
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	109	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (30.0 µm)	100		ASTM D2457
Haze (30.0 µm)	7.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method
Blocking (30.0 µm)	20.0	g/100 cm <sup>2</sup>	ASTM D3354
Slip (30.0 µm)	0.900	Tan θ	Internal method
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	155	°C	
Cylinder Zone 2 Temp.	160	°C	
Cylinder Zone 3 Temp.	175	°C	
Melt Temperature	190	°C	

Die Temperature	170 - 190	°C
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#### Extrusion instructions

Extruder: 50 mm diameter; L/D: 26; C.R: 3.4H Temperature: 200°C

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#### Recommended distributors for this material

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