

COSMOTHENE® F218-1

Low Density Polyethylene

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

COSMOTHENE® F218-1 is a Low Density Polyethylene product. It can be processed by film extrusion and is available in Asia Pacific. Applications of COSMOTHENE® F218-1 include bags/liners, film and wrap.

Characteristics include:

Good Toughness

Impact Resistant

Slip

General Information			
Additive	Low Slip		
Features	Good Impact Resistance		
	Good Toughness		
	Low Slip		
Uses	Film		
	Heavy-duty Bags		
	Shrink Wrap		
Forms	Pellets		
Processing Method	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.920	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	1.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	17.7	MPa	ASTM D638
Tensile Elongation (Break)	650	%	ASTM D638
Apparent Bending Modulus	196	MPa	ASTM D747
Thermal	Nominal Value	Unit	
Melting Temperature	108	°C	
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	120 to 140	°C	
Cylinder Zone 2 Temp.	130 to 150	°C	
Cylinder Zone 3 Temp.	140 to 160	°C	
Adapter Temperature	145 to 165	°C	
Melt Temperature	155 to 175	°C	
Die Temperature	155 to 175	°C	

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