

# COSMOTHENE® F210-6

Low Density Polyethylene

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

COSMOTHENE F210-6 has excellent strength, good processibility and transparency. It is formulated with medium level of slip and antiblocking agent. Shopping bag, transparent bag, sealant film for lamination and many others general purpose bag.

General Information			
Additive	Moderate caking resistance		
	Moderate smoothness		
Features	Workability, good		
	Good strength		
	General		
	Moderate caking resistance		
	Moderate smoothness		
Uses	Films		
	Laminate		
	Bags		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Appearance	Clear/transparent		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.922	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	15.7	MPa	ASTM D638
Tensile Elongation (Break)	600	%	ASTM D638
Apparent Bending Modulus	220	MPa	ASTM D747
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	108	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (30.0 µm)	100		ASTM D2457
Haze (30.0 µm)	6.0	%	ASTM D1003
Additional Information	Nominal Value	Unit	Test Method

Blocking (30.0 μm)	25.0	g/100 cm <sup>2</sup>	ASTM D3354
Slip (30.0 μm)	0.170	Tan θ	Internal method
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	130	°C	
Cylinder Zone 2 Temp.	145	°C	
Cylinder Zone 3 Temp.	155	°C	
Melt Temperature	160	°C	
Die Temperature	160	°C	
Extrusion instructions			

Extruder: 50 mm diameter; L/D: 26; C.R: 3.4H Temperature: 160°C

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#### Recommended distributors for this material

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