

COSMOTHENE® F410-1

Low Density Polyethylene

TPC, The Polyolefin Company (Singapore) Pte Ltd

Message:

COSMOTHENE F410-1 has excellent transparency, good stiffness and processibility. It is formulated with medium level of slip and antiblocking agent. Transparent thin gauge bag, shopping bag, zipper bag and many others general purpose bag.

General Information			
Additive	Moderate caking resistance		
	Moderate smoothness		
Features	Low density		
	Rigidity, high		
	Workability, good		
	Definition, high		
	Moderate caking resistance		
	Moderate smoothness		
Uses	Packaging		
	Films		
	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	0.923	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)	5.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	13.7	MPa	ASTM D638
Tensile Elongation (Break)	550	%	ASTM D638
Apparent Bending Modulus	240	MPa	ASTM D747
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	30	µm	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	111	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (30.0 µm)	120		ASTM D2457
Haze (30.0 µm)	4.0	%	ASTM D1003

Additional Information	Nominal Value	Unit	Test Method
Blocking (30.0 μm)	30.0	g/100 cm ²	ASTM D3354
Slip (30.0 μm)	0.140	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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