

# COSMOTHENE® L420

Low Density Polyethylene

TPC, The Polyolefin Company (Singapore) Pte Ltd

## Message:

COSMOTHENE L420 shows good balance between neck-in and processability, good heat seal property, good adhesion (with base film). COSMOTHENE L420 is not formulated with additives.

Extrusion coating on polyester film, biaxially oriented PP film, paper, aluminum and PE woven cloth.

General Information			
Features	Workability, good		
	Good heat sealability		
	Good adhesion		
	Low shrinkage		
Uses	Foil Coatings		
	Coating application		
	Fabric coating		
	Paper coating		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1		
Forms	Particle		
Processing Method	Extrusion coating		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR)	3.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	14.7	MPa	ASTM D638
Tensile Elongation (Break)	650	%	ASTM D638
Apparent Bending Modulus	190	MPa	ASTM D747
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	107	°C	Internal method
Extrusion	Nominal Value	Unit	Test Method
Cylinder Zone 1 Temp.	240	°C	
Cylinder Zone 2 Temp.	270	°C	
Cylinder Zone 3 Temp.	300	°C	
Cylinder Zone 4 Temp.	330	°C	
Die Temperature	330	°C	
Neck-in <sup>1</sup>	15.0	mm	Internal method
Extrusion instructions			
Base film: BOPP; 20 μExtruder: 90 mm diameter laminator; L/D: 24; C.R: 3.5H Temperature: 330°C			
NOTE			

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#### Recommended distributors for this material

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