



COSMOTHENE® F410-1

CHARACTERISTICS

COSMOTHENE F410-1 has excellent transparency, good stiffness and processibility. It is formulated with medium level of slip and antiblocking agent.

APPLICATIONS

Transparent thin gauge bag, shopping bag, zipper bag and many others general purpose bag.

F410-1 complies with U.S. FDA Regulation 21 CFR 177.1520 (C) 2.1, as long as it is used unmodified and processed according to standard manufacturing practices in the industries.

Note : Direct food contact is subjected to the extraction provisions of the regulation on the finished food contact article.

PHYSICAL PROPERTIES

ITEM	UNIT	F410-1	TEST METHOD
Melt Flow Rate	g/10 mins	5	ASTM D1238
Density	g/cm ³	0.923	ASTM D792
Tensile Strength at break	MPa	13.7	ASTM D638
Elongation	%	550	ASTM D638
Stiffness	MPa	240	ASTM D747
Melting Point	°C	111	TPC METHOD

FILM PROPERTIES

ITEM	UNIT	F410-1	TEST METHOD
Haze	%	4.0	ASTM D1003
Gloss	%	120	ASTM D2457
Slip	Tan θ	0.14	TPC METHOD
Blocking	g/100cm ²	30	ASTM D3354
Thickness	μ	30	

PROCESSING CONDITIONS

Extruder : 50mm $\varnothing$ L/D : 26, C.R : 3.4

Temperature (°C) :	C ₁	C ₂	C ₃	H	Die	Stock
	130	145	155	160	160	160

- The figures presented are typical laboratory averages, only for reference.
- The information is based on our current knowledge, is subjected to continuous updates and is intended to suggest/ recommend product applications and to provide typical data on the related properties. It should not therefore be construed as guaranteeing any specific property of the product. TPC makes no warranty of any kind, expressed or implied, regarding the accuracy of these data.

