

ExxonMobil

mLLDPE

1018MF

Product information				
Manufacturer		ExxonMobil Chemical Company		
Color		NC		
Material Shape		Pellets		
Process		Blow molding		
Polymer		Copolymer		
Material Attribute		Film grade Blowing grade Antiblock Food Contact grade C6		
Features		High impactPuncture resistantEthylene 1-hexene copolymer		
Application		Bag in BoxBarrier food PackagingBread bagsCompounding filmFood packaging applicationFreeze filmHeavy-duty bagsIndustrial packaging applicationLiners bagsOverwrap filmPackagingPackaging filmSeal packagingStand up pouchesTrash bagAgricultural film		
Additives		Antiblock Heat Stabilizer Processing Aid Slip Agent		
Mechanical behavior	Condition	Standard	Value	Unit
Elmendorf	Tear Strength Flow	ASTM D1922	250	g
Elmendorf	Tear Strength xFlow	ASTM D1922	470	g
Elongation	Flow Break	ASTM D882	500	%
Elongation	xFlow Break	ASTM D882	600	%
Falling	Weight Impact Strength	ASTM D1709	460	g
Puncture	Resistance	INTERNAL METHOD	36	N
Puncture	Resistance	INTERNAL METHOD	1.8	J
Secant	Modulus 1% Flow	ASTM D882	190	MPa
Secant	Modulus 1% xFlow	ASTM D882	190	MPa
Tensile	Strength Flow Yield	ASTM D882	9.4	MPa
Tensile	Strength xFlow Yield	ASTM D882	9.4	MPa
Tensile	Strength Flow Break	ASTM D882	50	MPa
Tensile	Strength xFlow Break	ASTM D882	43	MPa
Optical performance	Condition	Standard	Value	Unit
Gloss	45°	ASTM D2457	39	
Haze		ASTM D1003	18	%
Physical property	Condition	Standard	Value	Unit
Density		ASTM D1505	0.918	g/cm³
Melt	Index 190°C 2.16kg	ASTM D1238	1.0	g/10min
Thermal	Condition	Standard	Value	Unit
Melting	Temperature Peak	INTERNAL METHOD	119	°C