

ExxonMobil

mLLDPE

1327MD

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 modulusHigh toughness
Application	Bag in BoxBarrier food PackagingBread bagsFood packaging applicationIndustrial packaging applicationPackagingPackaging filmSeal packagingStand up pouchesTrash bagZipper bagsShrink wrap
Additives	Antiblock Heat Stabilizer Processing Aid Slip Agent

Mechanical behavior	Condition	Standard	Value	Unit
Elmendorf	Tear Strength Flow	ASTM D1922	190	g
Elmendorf	Tear Strength xFlow	ASTM D1922	450	g
Elongation	Flow Break	ASTM D882	560	%
Elongation	xFlow Break	ASTM D882	620	%
Falling	Weight Impact Strength	ASTM D1709	140	g
Puncture	Resistance	INTERNAL METHOD	38	N
Puncture	Resistance	INTERNAL METHOD	1.7	J
Secant	Modulus 1% Flow	ASTM D882	310	MPa
Secant	Modulus 1% xFlow	ASTM D882	330	MPa
Tensile	Strength Flow Yield	ASTM D882	13	MPa
Tensile	Strength xFlow Yield	ASTM D882	14	MPa
Tensile	Strength Flow Break	ASTM D882	47	MPa
Tensile	Strength xFlow Break	ASTM D882	39	MPa

Optical performance	Condition	Standard	Value	Unit
Gloss	45°	ASTM D2457	25	
Haze		ASTM D1003	26	%

Physical property	Condition	Standard	Value	Unit
Density		ASTM D1505	0.927	g/cm ³
Melt	Index 190°C 2.16kg	ASTM D1238	1.3	g/10min

Thermal	Condition	Standard	Value	Unit
Melting	Temperature Peak	INTERNAL METHOD	123	°C
Vicat	Softening Temperature	ASTM D1525	116	°C