LDPE Film/Sheet

LDPE film (? 0.92 g/cm³, 400% elongation) for food packaging, agricultural mulch, construction vapor barriers & heat-sealable multilayer laminates. **SKU:** 1000007354-group
Product Code: ET31-FM-000250

Material Properties for Polymers

Chemical Resistance

Element	Value
Acids - concentrated	Good-Fair
Acids - dilute	Good
Alcohols	Good
Alkalis	Good
Aromatic hydrocarbons	Fair-Poor
Greases and Oils	Good-Fair
Halogenated Hydrocarbons	Fair-Poor
Halogens	Fair-Poor
Ketones	Good-Fair

Electrical Properties

Element	Value
Dielectric constant @1MHz	2.2-2.35
Dissipation factor @ 1MHz	1-10x 10??
Dielectric strength(kV mm?¹)	27
Surface resistivity(Ohm/sq)	10^{13}
Volume resistivity(Ohmcm)	10^{1}?-10^{1}?

Physical Properties

Element	Value
Flammability	HB
Radiation resistance	Fair
Refractive index	1.51
Resistance to Ultra-violet	Poor

Element	Value
Limiting oxygen index(%)	17
Water absorption - over 24 hours(%)	0.015
Density(gcm?³)	0.92

Mechanical Properties

Element	Value
Hardness - Rockwell	D41-46 - Shore
Elongation at break(%)	400
Tensile modulus(GPa)	0.1-0.3
Izod impact strength(J m?¹)	1000
Tensile strength(MPa)	5-25

Thermal Properties

Element	Value
Heat-deflection temperature - 0.45MPa(C)	50
Heat-deflection temperature - 1.8MPa(C)	35
Lower working temperature(C)	-60
Upper working temperature(C)	50-90
Specific heat(J K?¹ kg?¹)	1900-2300
Thermal conductivity(W m?¹ K?¹)	0.33@23°C
Coefficient of thermal expansion(x10?? K?¹)	100-200