



Petrochemicals > Polyethylene

## LOW DENSITY POLYETHYLENE (LDPE)

LDPE is a tough plastic, that has many side branches in its molecular chain which results in low density, and feels quite soft but is still very strong. In addition, it is water-repellent, well-insulating, and resistant to acids. LDPE film is therefore very suitable as packaging material. The film may also come into contact with food and can therefore be used in the food industry.

### LDPE FILM

LDPE film grade has good optical fastnesses, toughness, and high melt strength leading to good bubble stability during blown film extrusion. All the above makes it the best choice in the production of blown, packaging, and laminating films with various applications such as agricultural films, bags and pouches, liner and shrink films, stretch hoods...

Typical Specification			
MFI (g/10min)	Density (g/cm <sup>3</sup> )	Tensile Stress @ Break (MPa)	Tensile Strain @ Break (%)
0.25 ~ 4 (2.16 kg)	0.919 ~ 0.924	MD (17 ~ 35) - TD (15 ~ 20)	MD (100 ~ 700) - TD (500 ~ 700)

### LDPE INJECTION

LDPE injection grade offers a unique combination of consistent processability, flexibility, and toughness. This grade is developed for applications that require a good balance between flow properties and mechanical properties. Some applications are toys, household, and clamping lids.

Typical Specification			
MFI (g/10min)	Density (g/cm <sup>3</sup> )	Tensile Modulus (MPa)	Impact Strength (KJ/m <sup>2</sup> )
22 (2.16 kg)	0.919	175	86