

LLDPE stands for Linear Low-Density Polyethylene. It is a type of polyethylene with a linear molecular structure, resulting in improved mechanical properties compared to LDPE. LLDPE offers a balance of flexibility, strength, and toughness, making it suitable for a wide range of applications. It is commonly used in film applications such as plastic bags, stretch wrap, and agricultural films.

Chemical Description

Description	Value
Material Type	Thermoplastic
Chemical Name	LDPE Linear Low Density Polyethylene
Additives	Unfilled
Color	Natural
UV Resistant	No

Physical Properties

Property	Maximum Unless Range is Specified
Density,g/cm3	0.919
Heat Deflection Temp Under Load,°F at 66psi	103
Vicat Softening Temp,°F	197
Melting Temp,°F	255
Melt Mass-Flow Rate(190C/2.16kg),g/10 min	25

Mechanical Properties

Property	Maximum Unless Range is Specified
Tensile Strength,Break,ksi	1.3
Tensile Strength,Yield,ksi	1.4
Flexural Modulus,ksi	34
Elongation at Break	600%
Tensile Impact Strength,ft-lb/in2	190
Hardness Shore D	45

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.