Polychemicals

LLDPE

Description

Linear low-density polyethylene (LLDPE) is a versatile thermoplastic polymer known for its high flexibility, tensile strength, and puncture resistance, derived from ethylene and longer-chain alpha-olefins. Unlike traditional low-density polyethylene (LDPE), LLDPE has a more linear molecular structure with short branches, which enhances its mechanical properties.

Application

- **Greenhouse Films:** Durable agricultural films and sheeting.
- **Heat Shrink Tubes:** Protective sleeving and tubing.
- **Plastic Bags:** High-strength carrier bags and liners.
- **Stretch Films:** Pallet wrap and industrial packaging films.

GRADE	P-L209	P-L235	P-L501	P-L2201	P-L2202	P-L2203	P-L920	P-L3020	P-L209C	Uz0120	Uz0220	Uz0320
MFR	0.9	0.6	0.95	0.9-1.2	1.8-2.2	2.8-3.2	0.9	3	1	0.8-1.5	1.5-2.5	2.5-3.5
DENSITY	920	922	922	922	922	922	920	920	920	920	920	920
TENSILE STRESS AT YIELD	10-11	10-11	12-12.5	11	12	18-21	11-12	10.8	10.6	11	11-12	10.8
TENSILE STRESS AT BREAK	41-31	45-25	45-30	43	40	54-36	44-40	30-19	41-31	43	44-40	30-19