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Specification of low density polyethylene (LDPE)

Appearance: Natural white granules

CAS NO.:9002-88-4

Specification

| ITEM | RESULT | TEST METHOD |
|---|----------------|--------------------|
| melt flow rate (g/10min) | 4 | ASTM D-1238 |
| Density g/cm ³ | 0.9 24 | ASTM D-792 |
| Hardness Shore D | 57 | ASTM D-2240 |
| Elongation % | 7 | ASTM D-638 |
| environmental stress crack resistance | 3 | ASTM D-1693 |
| 2% Secant bending modulus psi(MPa) | 167,000(1151) | ASTM D-790 B |
| tensile yield strength ft@lb/in ² (kJ/m ²) | 20(42) | ASTM D-1822,Type S |
| tensile breaking strength psi(MPa) | 2000(14) | ASTM D-1822,Type S |
| elongation at break % | 250 | ASTM D-638 |

Application

LDPE(low density polyethylene) - is used in products and packaging such as plastic bags, milk jugs, detergent bottles, margarine tubs, garbage containers, water pipes, woven bag, raincoat, polyethylene monofilament, woven yarn etc.. LDPE resins are made by high pressure autoclave process and mainly used for blown film extrusion and wire coating (cable sheath) etc.. They are widely used for applications for general purpose packaging films, heavy duty bags, shrink films, and foams.