

## HDPE made via Spherilene Process



### Product data sheet **14ZF8**

14ZF8 is a HP-LLDPE grade, suitable for blown film applications, targeting high mechanical properties, with an excellent processability. The 14ZF8 HP-LLDPE, alone or in blend with LDPE, is suitable for small pipe extrusion, especially for agricultural lateral-dripping pipes, The 14ZF8 is suitable for extrusion of blow molded soft containers.

**HDPE: 14ZF8**

**Density: 0.915**

**MFI: 0.75**

#### Features



- Easy processability
- high mechanical properties
- Mechanical

#### Applications



- Blown film
- small pipe extrusion
- agricultural lateral-dripping pipes

#### Additives



- THERMAL ANOTIOXIDANT
- ANTIBLOCKING AGENT
- SLIP AGENT

### Material properties (This data are typical values and are not to be construed as product specifications.)

| Resin properties   | Unit  | Typical values |         | ASTM Method |
|--|-------|----------------|---------|-------------|
| Melt flow rate (190/2.16)  | g/10' | 0.75           |         | D 1238      |
| Density  | g/ml  | 0.915          |         | D 1505      |
| Film properties @  |       |                |         |             |
| Dart Impact  | (g)   |                | 120     | D 1709      |
| Elmendorf Tear   | (g)   | MD/TD          | 350/210 | D 1922      |
| Tensile strength at yield  | (MPa) | MD/TD          | 11/10.9 | D 882       |
| Tensile strength at break  | (MPa) | MD/TD          | 36/28   | D 882       |
| Ultimate Elongation  | (%)   | MD/TD          | 580/680 | D 882       |
| 2% Secant modulus  | (MPa) | MD/TD          | 190/210 | D 882       |
| Haze   | (%)   |                | 25      | D 1003      |
| Gloss 45°  |       |                | 30      | D 2457      |
| @ On 25 μ blown film extruded on a 25 mm extruder. BUR 2.5:1. Temperature profile 150 to 190°C; melt temperature 200°C |       |                |         |             |
| Recommended film processing conditions   |       |                |         |             |
| Melt Temperature   | (°C)  | 190-240        |         |             |
| Blow up ratio  |       | 2.0-3.0        |         |             |
| Die Gap  | (mm)  | 2.0-2.5        |         |             |
| Thickness  | (μ)   | 18-180         |         |             |