



## HDPE made via Spherilene Process



### Product data sheet 14XF9

14XF9 is a HP-LLDPE blown film grade of excellent processability, good film strength combined with very good optical properties (transparency and gloss, and low level of gels). The addition package of 14XF9 is particularly suitable for lamination.

**HDPE: 14XF9**

**Density: 0.915**

**MFI: 0.9**

#### Features



- excellent processability
- good film strength combined
- very good optical properties (transparency and gloss, and low level of gels).

#### Applications



- Film grade for lamination

#### Additives



- THERMAL ANOTIOXIDANT
- ANTIBLOCKING AGENT

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

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| Resin properties                                                                                                       | Unit    | Typical values |           | ASTM Method |
|------------------------------------------------------------------------------------------------------------------------|---------|----------------|-----------|-------------|
| Melt flow rate (190/2.16)                                                                                              | (g/10') | 0.9            |           | D 1238      |
| Density                                                                                                                | (g/ml)  | 0.915          |           | D 1505      |
| Film properties @                                                                                                      |         |                |           |             |
| Dart Impact                                                                                                            | (g)     |                | 110       | D 1709      |
| Elmendorf Tear                                                                                                         | (g)     | MD/TD          | 130/480   | D 1922      |
| Tensile strenght at yield                                                                                              | (MPa)   | MD/TD          | 10.7/10.8 | D 882       |
| Tensile strenght at break                                                                                              | (MPa)   | MD/TD          | 40/35     | D 882       |
| Ultimate Elongation                                                                                                    | (%)     | MD/TD          | 680/760   | D 882       |
| 2% Secant modulus                                                                                                      | (MPa)   | MD/TD          | 190/210   | D 882       |
| Haze                                                                                                                   | (%)     |                | 18        | D 1003      |
| Gloss 45°                                                                                                              |         |                | 42        | 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 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         |           |             |