# DOWLEX™ 2607GC
## Linear Low Density Polyethylene Resin

### Overview

DOWLEX 2607 GC Polyethylene Resin is specifically designed for large/high output cast film lines to make high performance industrial stretch films.

Films made from DOWLEX 2607 GC Polyethylene Resin exhibit an excellent balance of processability, mechanical and stretchability performance properties.

DOWLEX 2607 GC Polyethylene Resin is to be used as a core resin in coextruded cast film structures for films in the thickness range between 10 and 35 microns.

Complies with:

- EU, No10/2011
- U.S. FDA FCN 741

Consult the regulations for complete details.

### Additive

- Antiblock: No
- Slip: No
- Processing Aid: No

| Physical | Nominal Value | (English) | Nominal Value | (SI) | Test Method |
|---|---|---|---|---|---|
| Density | 0.918 | g/cm³ | 0.918 | g/cm³ | ASTM D792 |
| Base Density [1] | 0.920 | g/cm³ | 0.920 | g/cm³ | Dow Method |
| Melt Index (190°C/2.16 kg) | 2.3 | g/10 min | 2.3 | g/10 min | ISO 1133 |
| **Films** | **Nominal Value** | **(English)** | **Nominal Value** | **(SI)** | **Test Method** |
| Film Thickness - Tested | 0.91 | mil | 23 | µm | |
| Film Puncture Energy (0.91 mil (23 µm)) | 1420 | in·lb | 160 | J | |
| Film Puncture Force (0.91 mil (23 µm)) | 9.89 | lbf | 44.0 | N | |
| Tensile Strength | | | | | ASTM D882 |
| MD : Yield, 0.91 mil (23 µm) | 1160 | psi | 8.00 | MPa | |
| TD : Yield, 0.91 mil (23 µm) | 1160 | psi | 8.00 | MPa | |
| MD : Break, 0.91 mil (23 µm) | 5080 | psi | 35.0 | MPa | |
| TD : Break, 0.91 mil (23 µm) | 4210 | psi | 29.0 | MPa | |
| Tensile Elongation | | | | | ASTM D882 |
| MD : Break, 0.91 mil (23 µm) | 460 | % | 460 | % | |
| TD : Break, 0.91 mil (23 µm) | 700 | % | 700 | % | |
| Dart Drop Impact (0.91 mil (23 µm)) | 150 | g | 150 | g | ASTM D1709A |
| Elmendorf Tear Strength | | | | | ASTM D1922 |
| MD : 0.91 mil (23 µm) | 190 | g | 190 | g | |
| TD : 0.91 mil (23 µm) | 420 | g | 420 | g | |
| Film Stretch Performace - Max Elongation | | | | | Dow Method |
| 0.9 mil (23.0 µm) | 350 | % | 350 | % | |
| Film Stretch Performace - Max Stretch Force | | | | | Dow Method |
| 0.9 mil (23.0 µm) | 37000 | g | 37000 | g | |

**Additional Information**

Film Properties: Cast Film fabrication at 250 m/min.

**Extrusion Notes**

Fabrication Conditions For Cast Film Extrusion:

- Chill Roll Temperature: 20 - 40°C
- Melt Temperature: 220 - 280°C
- Recommended Gauge Range: 10 - 35 µm





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## Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

[1] Base density is estimated using the assumption that every 1000 ppm of antiblock in the finished product raises the density of the polymer by 0.0006 g/cm³. Base density is the estimated density of the polymer if it did not contain any antiblock.

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