

# FLEXOMER™ ETS-9066 NT 7

Very Low Density Polyethylene Resin

The Dow Chemical Company

## Message:

FLEXOMER™ ETS -9066 NT 7 Very Low Density Polyethylene (VLDPE) Resin is intended for use in single or multi-layer blown-film constructions or thick sheets. Films extruded from ETS- 9066 NT 7 have a high tear strength, high impact strength, and high puncture resistance and are readily heat sealable. Addition of slip and antiblock agents should be considered for most applications.

Excellent strength and toughness balance

Flexible over wide temperature range

Superior low temperature properties

Broad sealing temperature range

Complies with U.S. FDA 21 CFR 177.1520 (c) 3.1a (with restrictions)

An additive present in this product limits use only in film form for food contact applications.

Consult the regulations for complete details.

| General Information                       |                             |                   |                 |
|---|-----------------------------|-------------------|-----------------|
| Agency Ratings                            | FDA 21 CFR 177.1520(c) 3.1a |                   |                 |
| Forms                                     | Particle                    |                   |                 |
| Processing Method                         | Blow molding                |                   |                 |
| Physical                                  | Nominal Value               | Unit              | Test Method     |
| Specific Gravity                          | 0.905                       | g/cm <sup>3</sup> | ASTM D792       |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.50                        | g/10 min          | ASTM D1238      |
| Films                                     | Nominal Value               | Unit              | Test Method     |
| Film Thickness - Tested                   | 25                          | µm                |                 |
| Film Puncture Energy                      | 4.52                        | J                 | Internal method |
| Film Puncture Force                       | 53.4                        | N                 | Internal method |
| Film Puncture Resistance                  | 29.8                        | J/cm <sup>3</sup> | Internal method |
| Film strength                             |                             |                   |                 |
| MD  | 47.2                        | J/cm <sup>3</sup> | ASTM D892       |
| TD  | 59.6                        | J/cm <sup>3</sup> | ASTM D882       |
| secant modulus                            |                             |                   | ASTM D882       |
| 1% secant, MD                             | 130                         | MPa               | ASTM D882       |
| 2% secant, MD                             | 112                         | MPa               | ASTM D882       |
| 1% secant, TD                             | 129                         | MPa               | ASTM D882       |
| 2% secant, TD                             | 110                         | MPa               | ASTM D882       |
| Tensile Strength                          |                             |                   | ASTM D882       |
| MD: Yield                                 | 6.89                        | MPa               | ASTM D882       |
| TD: Yield                                 | 6.21                        | MPa               | ASTM D882       |
| MD: Fracture                              | 34.1                        | MPa               | ASTM D882       |
| TD: Fracture                              | 25.8                        | MPa               | ASTM D882       |
| Tensile Elongation                        |                             |                   | ASTM D882       |
| MD: Fracture                              | 330                         | %                 | ASTM D882       |

| TD: Fracture                | 560           | %    | ASTM D882       |
|-----------------------------|---------------|------|-----------------|
| Dart Drop Impact            | 870           | g    | ASTM D1709B     |
| Elmendorf Tear Strength     |               |      | ASTM D1922      |
| MD                          | 270           | g    | ASTM D1922      |
| TD                          | 440           | g    | ASTM D1922      |
| Thermal                     | Nominal Value | Unit | Test Method     |
| Vicat Softening Temperature | 87.8          | °C   | ASTM D1525      |
| Melting Temperature (DSC)   | 99.0          | °C   | Internal method |
| Optical                     | Nominal Value | Unit | Test Method     |
| Gloss (45°)                 | 48            |      | ASTM D2457      |
| Haze                        | 11            | %    | ASTM D1003      |
| Extrusion instructions      |               |      |                 |

吹塑薄膜的制造条件:

螺杆尺寸:2.5 英寸 (63.5 mm);30:1 L/D

螺杆类型:DSBII

模具间隙:70 密尔 (1.8mm)

熔体温度:416°F (213 °C)

输出:模具周长的 10 磅/小时/英寸

模具直径:6 英寸

放大比:2.5:1

螺杆速度:59 rpm

冷冻线高度:30 分钟 (762 mm)

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