

**LUMICENE® mPE M 5510 EP**

(PE-HD+PPA)

TotalEnergies

| Processing/Physical Characteristics | Value | Unit    | Test Standard |
|-------------------------------------|-------|---------|---------------|
| <b>ISO Data</b>                     |       |         |               |
| Melt flow index, MFI                | 1.2   | g/10min | ISO 1133      |
| Temperature                         | 190   | °C      | -             |
| Load                                | 2.16  | kg      | -             |

| Thermal properties            | Value | Unit | Test Standard  |
|-------------------------------|-------|------|----------------|
| <b>ISO Data</b>               |       |      |                |
| Melting temperature, 10°C/min | 134   | °C   | ISO 11357-1/-3 |

| Optical properties | Value | Unit | Test Standard |
|--------------------|-------|------|---------------|
| <b>ISO Data</b>    |       |      |               |
| Haze               | 24    | -    | ISO 14782     |
| <b>ASTM Data</b>   |       |      |               |
| Gloss              | 40    | -    | ASTM D 2457   |

| Other properties | Value | Unit              | Test Standard |
|------------------|-------|-------------------|---------------|
| Density          | 955   | kg/m <sup>3</sup> | ISO 1183      |

| Film Properties           | Value | Unit | Test Standard |
|---------------------------|-------|------|---------------|
| <b>ISO Data</b>           |       |      |               |
| Stress at yield, parallel | 27.5  | MPa  | ISO 527-3     |
| Stress at yield, normal   | 28    | MPa  | ISO 527-3     |
| Stress at break, parallel | 57    | MPa  | ISO 527-3     |
| Stress at break, normal   | 45    | MPa  | ISO 527-3     |
| Maximum strain, parallel  | 870   | %    | ISO 527-3     |
| Maximum strain, normal    | 910   | %    | ISO 527-3     |
| Dart drop A               | 100   | g    | ISO 7765-1    |
| Type of extrusion         | blown | -    | -             |
| Thickness of specimen     | 0.04  | mm   | -             |

| Processing Recommendation Extrusion | Value     | Unit | Test Standard |
|-------------------------------------|-----------|------|---------------|
| Melt temperature                    | 200 - 230 | °C   | -             |

**Characteristics****Processing**

Blown Film Extrusion, Film Extrusion

**Special Characteristics**

Heat stabilized or stable to heat, Transparent

**Features**

Barrier Properties, Blending Resin, Homopolymer

**Chemical Resistance**

Oxidation Resistance

**Certifications**

Food contact

**Applications**

Packaging

**Regional Availability**

Europe