

**Metallocene Linear Low Density Polyethylene**

## XP9200 series

### Description

|                                  |                                                                                                                                                                                        |                                                                                                                                 |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Characteristics</b>           | <ul style="list-style-type: none"> <li>▪ Excellent Toughness and Stiffness</li> <li>▪ High Clarity and Gloss</li> <li>▪ Excellent Heat Seal Properties at Lower Temperature</li> </ul> | <ul style="list-style-type: none"> <li>▪ Very Small amount of Extractables</li> <li>▪ Excellent Heat Seal Properties</li> </ul> |
| <b>Applications</b>              | <ul style="list-style-type: none"> <li>▪ Lamination Film</li> <li>▪ Agriculture Film</li> </ul>                                                                                        | <ul style="list-style-type: none"> <li>▪ Stretch Hood Film</li> <li>▪ Other High Strength Films</li> </ul>                      |
| <b>Processing Recommendation</b> | Processing Temperature 150~190°C / BUR 2.0~3.0                                                                                                                                         |                                                                                                                                 |
| <b>Specification data</b>        | Complies with FDA 21 CFR 177.1520<br>Complies with EU, 10/2011                                                                                                                         |                                                                                                                                 |

### Physical Properties – Lamination Film & Agriculture Film

| Resin Properties                                 | Unit               | Test Method | XP9200E        | XP9200EN | XP9200         | XP9200N     |
|--------------------------------------------------|--------------------|-------------|----------------|----------|----------------|-------------|
| Density                                          | g/cm <sup>3</sup>  | ASTM D1505  | 0.918          | 0.917    | 0.918          | 0.918       |
| Melt Index (190°C, 2.16 kg)                      | g/10min            | ASTM D1238  | 1.0            | 1.0      | 1.5            | 1.5         |
| Vicat Softening Temperature                      | °C                 | ASTM D1525  | 106            | 106      | 106            | 106         |
| Melting Temperature                              | °C                 | ASTM D3418  | 116            | 116      | 116            | 116         |
| Additives                                        |                    |             | AO, PPA, AB, S | AO, PPA  | AO, PPA, AB, S | AO, PPA, AB |
| Film Properties                                  | Unit               | Test Method | XP9200E        | XP9200EN | XP9200         | XP9200N     |
| Tensile Strength at Break, MD/TD                 | kg/cm <sup>2</sup> | ASTM D882   | 580/460        | 580/460  | 580/460        | 580/460     |
| Elongation at Break, MD/TD                       | %                  | ASTM D882   | 580/620        | 580/620  | 580/620        | 580/620     |
| Tear Strength, MD/TD                             | kg/cm              | ASTM D1004  | 124/127        | 124/127  | 124/127        | 124/127     |
| Dart Impact Strength(B)                          | gf                 | ASTM D1709  | 700            | 700      | 670            | 670         |
| Haze                                             | %                  | ASTM D1003  | 12             | 12       | 12             | 12          |
| Gloss(45°)                                       | -                  | ASTM D2457  | 87             | 87       | 87             | 87          |
| Seal Initiation Temperature (HGT, 2.8KG, 0.5sec) | °C                 | Daelim      | 95             | 95       | 95             | 95          |

1. Film Processing Condition : Φ40mm Blown Film Extruder, 180°C, BUR 2.5, Φ100mm Die, Film thickness 0.030mm
2. Additives : AO (Antioxidant), AB (Anti Blocking Agent), S (Slip Agent), PPA (Polymer Processing Aid)
3. These are typical properties only and are not to be construed as specifications.

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