# Lupolen 3020 H PLUS

Low Density Polyethylene

LyondellBasell Industries

## Message:

Lupolen 3020 H PLUS is a non-additivated, low density polyethylene with high rigidity, good opticals and good chemical resistance. This grade is characterized by a very low gel level. Typical customer applications are lamination films or other higher value film applications where a very low gel content is required . It is delivered in pellet form.
Foodlaw compliance information about this product can be found in separate product documentation.
This product is not intended for use in medical and pharmaceutical applications.

| General Information | |
|---|---|
| Features | Low speed solidification crystal point<br>Rigid, good<br>Optical<br>Workability, good<br>Good heat sealability<br>Good chemical resistance<br>No additive |
| Uses | Films<br>Laminate<br>cast film<br>Food packaging |
| Forms | Particle |
| Processing Method | Blow film<br>Extrusion<br>cast film |

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density | 0.928 | g/cm³ | ISO 1183 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 | g/10 min | ISO 1133 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 300 | MPa | ISO 527-2 |
| Tensile Stress (Yield) | 13.0 | MPa | ISO 527-2 |
| Coefficient of Friction (Blown Film) | > 0.80 | | ISO 8295 |
| **Films** | **Nominal Value** | **Unit** | **Test Method** |
| Film Thickness - Tested | 50 | µm | |
| Film Thickness - Recommended / Available | 20-60 um | | |
| Tensile Strength | | | ISO 527-3 |
| MD: 50 µm, blown film | 25.0 | MPa | ISO 527-3 |

| | | | |
|---|---|---|---|
| TD: 50 µm, blown film | 20.0 | MPa | ISO 527-3 |
| Tensile Elongation | | | ISO 527-3 |
| MD: Broken, 50 µm, blown film | 350 | % | ISO 527-3 |
| TD: Broken, 50 µm, blown film | 600 | % | ISO 527-3 |
| Dart Drop Impact (50 µm, Blown Film) | 110 | g | ASTM D1709 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Vicat Softening Temperature | 100 | °C | ISO 306/A50 |
| Melting Temperature (DSC) | 114 | °C | ISO 3146 |
| **Optical** | **Nominal Value** | **Unit** | **Test Method** |
| Gloss | | | ASTM D2457 |
| 20, 50.0 µm, blown film | > 70 | | ASTM D2457 |
| 60, 50.0 µm, blown film | > 110 | | ASTM D2457 |
| Haze (50.0 µm, Blown Film) | < 6.5 | % | ASTM D1003 |
| **Additional Information** | **Nominal Value** | **Unit** | **Test Method** |
| Failure Energy (50.0 µm) | 40.0 | J/cm | DIN 53373 |
| Film property tested using 50 µm thickness blown film extruded at a melt temperature of 180°C and a blow-up ratio of 1:2.5. | | | |
| **Extrusion** | **Nominal Value** | **Unit** | |
| Melt Temperature | 160 - 200 | °C | |



## Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China