

## Lupolen 5021DX (PE-HD)

LyondellBasell Industries

| Rheological properties | Value | Unit    | Test Standard |
|------------------------|-------|---------|---------------|
| <b>ISO Data</b>        |       |         |               |
| Melt Flow Index, MFI   | 0.25  | g/10min | ISO 1133      |
| MFI temperature        | 190   | °C      | -             |
| MFI load               | 2.16  | kg      | -             |

| Mechanical Properties                   | Value | Unit  | Test Standard |
|-----------------------------------------|-------|-------|---------------|
| <b>ISO Data</b>                         |       |       |               |
| Tensile Modulus                         | 1000  | MPa   | ISO 527       |
| Yield stress                            | 25    | MPa   | ISO 527       |
| Yield strain                            | 9     | %     | ISO 527       |
| Notched Impact Strength (Charpy), -30°C | 6     | kJ/m² | ISO 179/1eA   |
| Ball Indentation Hardness               | 45    | MPa   | ISO 2039-1    |

| Thermal Properties                      | Value | Unit | Test Standard  |
|-----------------------------------------|-------|------|----------------|
| <b>ISO Data</b>                         |       |      |                |
| Melting Temperature (10°C/min)          | 131   | °C   | ISO 11357-1/-3 |
| Vicat softening temperature A           | 128   | °C   | ISO 306        |
| Vicat softening temperature, 50°C/h 50N | 78    | °C   | ISO 306        |

| Other Properties | Value | Unit  | Test Standard |
|------------------|-------|-------|---------------|
| <b>ISO Data</b>  |       |       |               |
| Density          | 950   | kg/m³ | ISO 1183      |
| Bulk density     | 500   | kg/m³ | -             |

| Processing Recommendation Extrusion | Value     | Unit | Test Standard |
|-------------------------------------|-----------|------|---------------|
| Melt temperature                    | 170 - 200 | °C   | -             |

### Characteristics

#### Processing

Other Extrusion, Blow Molding

#### Delivery form

Pellets

#### Chemical Resistance

General Chemical Resistance, Environmental Stress Crack Resistance, Oxidation Resistance

#### Applications

Automotive, Packaging

### Disclaimer

#### Liability Exclusion

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