

# Lupolen GX 4087

Low Density Polyethylene

LyondellBasell Industries

## Message:

Lupolen GX 4087 is a low density polyethylene (LDPE), natural colour, without antioxidants and very low gel level for medium high voltage cable insulation.

LyondellBasell quality system is designed to assure the high standards of cleanliness of Lupolen GX 4087. A dedicated production procedure is maintained and the product is tested by using online measurements.

This grade is not intended for use in medical or pharmaceutical applications.

| General Information                       |                           |                   |             |
|---|---------------------------|-------------------|-------------|
| Features                                  | Good Processing Stability |                   |             |
|   | Homopolymer               |                   |             |
|   | Low Gel                   |                   |             |
| Uses                                      | High Voltage Insulation   |                   |             |
|   | Medium Voltage Insulation |                   |             |
|   | Wire & Cable Applications |                   |             |
| Appearance                                | Natural Color             |                   |             |
| Forms                                     | Pellets                   |                   |             |
| Physical                                  | Nominal Value             | Unit              | Test Method |
| Density                                   | 0.924                     | g/cm <sup>3</sup> | ISO 1183    |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 1.9                       | g/10 min          | ISO 1133    |
| Hardness                                  | Nominal Value             | Unit              | Test Method |
| Shore Hardness (Shore D)                  | 48                        |                   | ISO 868     |
| Ball Indentation Hardness (H 49/30)       | 18.0                      | MPa               | ISO 2039-1  |
| Mechanical                                | Nominal Value             | Unit              | Test Method |
| Tensile Modulus                           | 260                       | MPa               | ISO 527-2   |
| Tensile Stress                            |                           |                   | ISO 527-2   |
| Yield                                     | 11.0                      | MPa               |             |
| --  | 18.0 to 26.0              | MPa               |             |
| Tensile Strain (Yield)                    | 250 to 600                | %                 | ISO 527-2   |
| Thermal                                   | Nominal Value             | Unit              | Test Method |
| Vicat Softening Temperature               | 94.0                      | °C                | ISO 306/A50 |
| Extrusion                                 | Nominal Value             | Unit              |             |
| Melt Temperature                          | 160 to 200                | °C                |             |

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