

# Lupolen 4261 AG UV 60005

High Density Polyethylene

LyondellBasell Industries

## Message:

Lupolen 4261 AG UV 60005 is a high density polyethylene with outstanding ESCR, high impact resistance and good chemical resistance. It is delivered in pellet form and contains antioxidants and a UV-stabiliser. Typical customer applications include IBC for the packaging of dangerous goods and heating oil tanks. Lupolen 4261 AG UV 60005 is not intended for use in medical and pharmaceutical applications.

| General Information                  |                                        |                    |             |
|--------------------------------------|----------------------------------------|--------------------|-------------|
| Additive                             | Antioxidation                          |                    |             |
|                                      | UV stabilizer                          |                    |             |
| Features                             | High ESCR (Stress Cracking Resistance) |                    |             |
|                                      | Antioxidation                          |                    |             |
|                                      | Impact resistance, high                |                    |             |
|                                      | Good creep resistance                  |                    |             |
|                                      | Good chemical resistance               |                    |             |
| Uses                                 | Packaging                              |                    |             |
|                                      | Industrial water tank                  |                    |             |
| Agency Ratings                       | EC 1907/2006 (REACH)                   |                    |             |
| Forms                                | Particle                               |                    |             |
| Processing Method                    | Extrusion blow molding                 |                    |             |
| Physical                             | Nominal Value                          | Unit               | Test Method |
| Density                              | 0.945                                  | g/cm <sup>3</sup>  | ISO 1183    |
| Apparent Density                     | > 0.50                                 | g/cm <sup>3</sup>  | ISO 60      |
| Melt Mass-Flow Rate (MFR)            |                                        |                    | ISO 1133    |
| 190°C/21.6 kg                        | 6.0                                    | g/10 min           | ISO 1133    |
| 190°C/5.0 kg                         | 0.35                                   | g/10 min           | ISO 1133    |
| FNCT - 3.5 MPa <sup>-1</sup> (80°C)  | 2.5                                    | day                | ISO 16770   |
| Staudinger Index                     | 370                                    | cm <sup>3</sup> /g | ISO 1628    |
| Hardness                             | Nominal Value                          | Unit               | Test Method |
| Ball Indentation Hardness (H 132/30) | 40.0                                   | MPa                | ISO 2039-1  |
| Mechanical                           | Nominal Value                          | Unit               | Test Method |
| Tensile Modulus (23°C)               | 850                                    | MPa                | ISO 527-2   |
| Tensile Stress (Yield, 23°C)         | 24.0                                   | MPa                | ISO 527-2   |
| Tensile Strain (Yield)               | 10                                     | %                  | ISO 527-2   |
| Impact                               | Nominal Value                          | Unit               | Test Method |
| Tensile Impact Strength (-30°C)      | 170                                    | kJ/m <sup>2</sup>  | ISO 8256/1A |
| Thermal                              | Nominal Value                          | Unit               | Test Method |

|                             |                |      |             |
|-----------------------------|----------------|------|-------------|
| Heat Deflection Temperature |                |      |             |
| 0.45 MPa, not annealed      | 70.0           | °C   | ISO 75-2/B  |
| 1.8 MPa, not annealed       | 42.0           | °C   | ISO 75-2/A  |
| Vicat Softening Temperature |                |      |             |
| --                          | 125            | °C   | ISO 306/A50 |
| --                          | 75.0           | °C   | ISO 306/B50 |
| Melting Temperature (DSC)   | 130            | °C   | ISO 3146    |
| Extrusion                   | Nominal Value  | Unit |             |
| Melt Temperature            | 180 - 220      | °C   |             |
| NOTE                        |                |      |             |
| 1.                          | 2% Igepal BC/9 |      |             |

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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



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