

# Lutene® H BE0400

High Density Polyethylene

LG Chem Ltd.

## Message:

LUTENE - H BE0400 is an excellent materials for blow-molded articles with high density and rigidity. It has good flow characteristics and impact resistance.

Main Applications

Blow molded containers with capacities ranging a few milliliters up to 20 liters, Sheet

| General Information                            |                                    |                   |             |
|------------------------------------------------|------------------------------------|-------------------|-------------|
| Features                                       | Rigidity, high                     |                   |             |
|                                                | High density                       |                   |             |
|                                                | Impact resistance, good            |                   |             |
|                                                | Wide molecular weight distribution |                   |             |
|                                                | Good liquidity                     |                   |             |
| Uses                                           | Blow molding applications          |                   |             |
|                                                | Sheet                              |                   |             |
|                                                | Container                          |                   |             |
| Processing Method                              | Extrusion                          |                   |             |
|                                                | Extrusion blow molding             |                   |             |
| Physical                                       | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                               | 0.958                              | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR)                      |                                    |                   | ASTM D1238  |
| 190°C/2.16 kg                                  | 0.12                               | g/10 min          | ASTM D1238  |
| 190°C/21.6 kg                                  | 25                                 | g/10 min          | ASTM D1238  |
| Environmental Stress-Cracking Resistance (F50) | 50.0                               | hr                | ASTM D1693  |
| Hardness                                       | Nominal Value                      | Unit              | Test Method |
| Durometer Hardness (Shore D)                   | 64                                 |                   | ASTM D2240  |
| Mechanical                                     | Nominal Value                      | Unit              | Test Method |
| Tensile Strength (Yield, 20°C)                 | 30.0                               | MPa               | ASTM D638   |
| Tensile Elongation (Fracture, 20°C)            | > 500                              | %                 | ASTM D638   |
| Flexural Modulus                               | 1100                               | MPa               | ASTM D790   |
| Impact                                         | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (20°C)                     | 200                                | J/m               | ASTM D256   |
| Thermal                                        | Nominal Value                      | Unit              | Test Method |
| Vicat Softening Temperature                    | 130                                | °C                | ASTM D1525  |
| Melting Temperature                            | 134                                | °C                | DSC         |
| Heat Deflection Temperature                    | 76                                 | °C                | ASTM D648   |

| Extrusion              | Nominal Value | Unit |
|------------------------|---------------|------|
| Cylinder Zone 1 Temp.  | 160 - 185     | °C   |
| Cylinder Zone 3 Temp.  | 175 - 195     | °C   |
| Cylinder Zone 5 Temp.  | 180 - 200     | °C   |
| Adapter Temperature    | 175 - 190     | °C   |
| Melt Temperature       | 180 - 200     | °C   |
| Die Temperature        | 160 - 190     | °C   |
| Extrusion instructions |               |      |

CrossHead temp: 165 to 195°C Mold Temp: 5 to 40°C

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