

# HANWHA LDPE 5602S

Low Density Polyethylene

Hanwha Chemical

## Message:

HANWHA LDPE 5602S is manufactured by tubular process and designed for variety of blow molding application such as food package, small bottles etc. LDPE 5602S is well known for its excellent processing characteristics and high quality assurance.

| General Information                                   |                            |                   |             |
|---|----------------------------|-------------------|-------------|
| Additive  | slip agent                 |                   |             |
| Features  | Highlight                  |                   |             |
|   | smoothness                 |                   |             |
|   | Workability, good          |                   |             |
|   | Definition, high           |                   |             |
| Uses  | Blow molding applications  |                   |             |
|   | Bottle                     |                   |             |
|   | Food packaging             |                   |             |
| Agency Ratings  | FDA 21 CFR 177.1520(c) 2.1 |                   |             |
| Forms   | Particle                   |                   |             |
| Processing Method                                     | Blow molding               |                   |             |
| Physical  | Nominal Value              | Unit              | Test Method |
| Density   | 0.921                      | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)             | 0.80                       | g/10 min          | ASTM D1238  |
| Hardness  | Nominal Value              | Unit              | Test Method |
| Durometer Hardness (Shore D)                          | 50                         |                   | ASTM D1706  |
| Mechanical  | Nominal Value              | Unit              | Test Method |
| Tensile Strength                                      |                            |                   | ASTM D638   |
| Yield   | 9.81                       | MPa               | ASTM D638   |
| Fracture  | 13.7                       | MPa               | ASTM D638   |
| Tensile Elongation (Break)                            | 700                        | %                 | ASTM D638   |
| Thermal   | Nominal Value              | Unit              | Test Method |
| Brittleness Temperature                               | < -76.0                    | °C                | ASTM D746   |
| Vicat Softening Temperature                           | 92.0                       | °C                | ASTM D1525  |
| Melting Temperature                                   | 111                        | °C                | DSC         |
| Additional Information                                | Nominal Value              | Unit              |             |
| Blow Molding Mold Temperature                         | 10 - 50                    | °C                |             |
| Blowing molding temperature-Melt                      | 160 - 220                  | °C                |             |
| Blow Molding Blow Pressure: 2 to 8 kg/cm <sup>2</sup> |                            |                   |             |

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