

# Halene H F5001

High Density Polyethylene  
Haldia Petrochemicals Ltd.

Message:

F5001 is a general purpose extrusion film grade HDPE produced by the Spherilene Technology.  
This grade is characterized by good processability and mechanical strength.  
F5001 can be used as blending resin in HDPE film for packaging application.

| General Information   |                     |                   |             |
|---|---------------------|-------------------|-------------|
| Features  | General Purpose     |                   |             |
|   | Good Processability |                   |             |
|   | Good Strength       |                   |             |
| Uses  | Blending            |                   |             |
|   | Film                |                   |             |
|   | General Purpose     |                   |             |
|   | Packaging           |                   |             |
| Processing Method   | Film Extrusion      |                   |             |
| Physical  | Nominal Value       | Unit              | Test Method |
| Density   | 0.950               | g/cm <sup>3</sup> | ASTM D1505  |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)                   | 1.1                 | g/10 min          | ASTM D1238  |
| Hardness  | Nominal Value       | Unit              | Test Method |
| Durometer Hardness (Shore D)                                | 61                  |                   | ASTM D2240  |
| Mechanical  | Nominal Value       | Unit              | Test Method |
| Tensile Strength <sup>1</sup>                               |                     |                   | ASTM D638   |
| Yield, Compression Molded                                   | 23.0                | MPa               |             |
| Break, Compression Molded                                   | 35.0                | MPa               |             |
| Tensile Elongation <sup>2</sup> (Break, Compression Molded) | > 1000              | %                 | ASTM D638   |
| Flexural Modulus  | 1000                | MPa               | ASTM D790   |
| Impact  | Nominal Value       | Unit              | Test Method |
| Notched Izod Impact (23°C)                                  | 450                 | J/m               | ASTM D256   |
| Thermal   | Nominal Value       | Unit              | Test Method |
| Peak Melting Temperature                                    | 131                 | °C                | ASTM D3418  |
| NOTE  |                     |                   |             |
| 1.  | Type IV             |                   |             |
| 2.  | Type IV             |                   |             |

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