

# INJECTION MOULDING

## HD 6070 EA

HD 6070 EA is a high-density polyethylene grade with a narrow molecular weight distribution, suitable for a wide range of injection moulding applications.

### HD 6070 EA has the following characteristics:

- *Easy processing*
- *High rigidity*
- *Good impact strength*
- *High warpage resistance*

### Applications:

- *Crates*
- *Boxes*
- *Seats*
- *Pallets*

### TYPICAL PROPERTIES

| Property                                | Unit              | Method of test   | Value       |            |
|---|-------------------|------------------|-------------|------------|
|   |                   |                  | Compression | Injection* |
| <i>Melt flow rate(2.16Kg)</i>           | g/10 min          | ISO 1133         | 7.5         |            |
| <i>Density</i>                          | Kg/m <sup>3</sup> | ISO 1183-2       | 960         |            |
| <i>Tensile strength at yield(MD/TD)</i> | MPa               | ISO 527 1&2      | 31          | 26/27      |
| <i>Elongation at break(MD/TD)</i>       | %                 | ISO 527 1&2      | >1000       | 1100/1300  |
| <i>Flexural modulus</i>                 | MPa               | ISO 178          | 1400        | 1100       |
| <i>ESCR, 23 °C</i>                      | Hours             | ASTM D1693A norm | 55          | 25         |
| <i>Charpy impact resistance</i>         | KJ/m <sup>2</sup> | ISO 179/A&B      | 6           | 8          |

\*Injection plaques - 250 °C – Injection pressure 1000b – Dwell pressure 800b – Dwell time 20s

**AA:** Stabilisation – **KJ:** High Slip Antiblock – **AF:** Processing Aid – **LJ:** Medium Slip, High Antiblock – **FB:** Low Gel Film – **EA:** Standard unmodified except for antioxidant – **GA:** Gas Phase Process – **UA:** UV Stabilisation