

## HD-I3

## License Grade Code HC7260 (THE)



### High Density Polyethylene (HDPE)

#### Product Description

"I3" is a high density polyethylene with 1-Butene as co monomer .It is rigid, low warpage, good flow ability, high density, hardness and stiffness, good impact strength good stress cracking resistance.

#### Applications

- Injection moulding
- Crates
- Engineering parts
- Closures

| PROPERTY  | UNIT              | TYPICAL VALUE | TEST METHOD  |
|---|-------------------|---------------|--------------|
| MASS DENSITY (230°C)                              | g/cm <sup>3</sup> | 0.957         | ISO 1183     |
| MELT FLOW RATE (190°C/2.16KG)                     | g/10min           | 8             | ISO 1133     |
| MELT FLOW RATE (190°C/5 KG)                       | g/10min           | 23            | ISO 1133     |
| STRESS AT YIELD                                   | MPa               | 29            | ISO 527      |
| FLEXURAL CREEP MODULUS (4POINT, 1MIN)             | MPa               | 1550          | DIN 19537-2  |
| TENSILE MODULUS (230C, V = 1MM/MIN, SECANT)       | MPa               | 1350          | ISO 527      |
| STRESS AT BREAK                                   | MPa               | 30            | ISO 527      |
| ELONGATION AT BREAK                               | %                 | >1000         | ISO 527      |
| ELONGATION AT YIELD                               | %                 | 10            | ISO 527      |
| SOFTENING TEMPERATURE                             | °C                | 72            | ISO 306      |
| BRITTLE TEMPERATURE                               | °C                | < - 80        | ASTM D746-72 |
| SHORE D HARDNESS                                  | -                 | 64            | ISO 868      |
| ESCR IN FULL NOTCH CREEP TEST (80°C, 2% ARCOPAL ) | h@2.5<br>MPa      | 1.5           | ISO CD 16770 |
| IMPACT STRENGTH (230C)                            | Kj/m <sup>2</sup> | 2.5           | ISO 179/1eA  |

#### Process condition

Recommended injection molding temperature: 200 - 280° C

Producer: Marun Petrochemical Co.

Licensor: Basell

Packing: 25 Kg plastic bag

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