



Arak Petrochemical Company



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## High Density Polyethylene HD5050EA (Injection Moulding)

| Typical properties               | Test method (ASTM) | Unit               | Value |
|----------------------------------|--------------------|--------------------|-------|
| MFI@190°C, 2.16 kg               | D1238              | gr/10min           | 4.5   |
| Density                          | D1505              | gr/cm <sup>3</sup> | 0.950 |
| Tensile Strength@Yield           | D638               | Mpa                | 25    |
| Tensile Modulus                  | D638               | Mpa                | -     |
| Elongation@Break                 | D638               | %                  | 1000  |
| Flexural Modulus                 | D790               | Mpa                | 800   |
| Hardness Shore D                 | D2240              | -                  | 64    |
| Charpy Impact Resistance (Notch) | D256               | Kj/m <sup>2</sup>  | 15    |

➤ Values shown are averages & are not to be considered as product specifications.

### ❖ Main application & Characteristics:

HD5050EA is a high density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for injection moulding applications where a good environmental stress-cracking resistance is required.

#### ◆ Characteristics:

- Good environmental stress cracking resistance.
- Good impact strength.
- Good weathering resistance.

#### ◆ Typical applications are:

- Caps & closures.
- Technical mouldings.
- Bins.
- Crates, boxes, household items.

\* HD5050EA is not suitable for organoleptic applications.