



Arak Petrochemical Company



ISO 9001:2000

Certificate No.: CH98/8032

ISO 14001:2004

Certificate No.: CH03/0112

OHSAS 18001:1999

Certificate No.: CH05/0675

High Density Polyethylene HD3840UA (Rotational Moulding)

| Typical properties | Test method (ASTM) | Unit | Value |
|----------------------------------|--------------------|--------------------|-------------|
| MFI@190°C, 2.16 kg | D-1238 | gr/10min | 3.8 - 4.5 |
| Density | D-1505 | gr/cm ³ | 0.935-0.939 |
| Tensile Strength@Yield | D-638 | Mpa | 18 |
| Tensile Modulus | D-638 | Mpa | — |
| Elongation@Break | D-638 | % | 1000 |
| Flexural Modulus | D-790 | Mpa | 700 |
| Hardness Shore D | D-2240 | — | — |
| Charpy Impact Resistance (Notch) | D-256 | Kj/m ² | 20 |

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

❖ Main application & Characteristics:

HD3840UA is a linear, UV stabilized virgin medium density polyethylene copolymer grade (MDPE), with a narrow molecular weight distribution.

◆ Characteristics:

- High stiffness.
- Good impact stress.
- Whiteness.
- UV stabilized.
- Good Stress Cracking Resistance.
- Excellent process-ability.
- Excellent internal and external surface finish.

◆ Typical applications are:

- Rotational moulded items with good stiffness, such as: Septic tanks and Ordinary containers.
- Injection moulded technical parts and closure.

* HD3840UA is suitable for food contact.