



Arak Petrochemical Company



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## 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 <sup>3</sup>	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 <sup>2</sup>	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.