



Arak Petrochemical Company



ISO 9001:2000
Certificate No.: CH98/8032

ISO 14001:2004
Certificate No.: CH03/0112

OHSAS 18001:1999
Certificate No.: CH05/0675

Address:

No. 3, Taban St.
Vali-e-Asr Ave.
Tehran - IRAN

Tel:

(+98 21)82122700

Fax:

(+98 21)8867 4126-27

Web-site:

www.arpc.ir

E-mail:

Sales@arpc-ir.net

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 ³	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 ²	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.