



Arak Petrochemical Company



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High Density Polyethylene HD5050UA (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:

HD5050UA is an ultra-violet light stabilised high density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for injection moulding applications where a good resistance to environmental stress cracking is required.

◆ Characteristics:

- Good environmental stress cracking resistance.
- High impact resistance, especially at low temperatures.
- Good weathering resistance.

◆ Typical applications are:

- Large dustbins & pails.
- Pallet boxes.
- Caps & closures.
- Fish crates.
- Technical parts.

* HD5050UA is suitable for food contact.