

Arak LLDPE HD5050EA

High Density Polyethylene
Shazand (Arak) Petrochemical Corporation

Message:

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.

General Information			
Features	Copolymer		
	Good Impact Resistance		
	Good Weather Resistance		
	High ESCR (Stress Crack Resist.)		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Closures		
	Containers		
	Crates		
	Engineering Parts		
	Household Goods		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm ³	ASTM D2838
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.5	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	64		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	25.0	MPa	ASTM D638
Tensile Elongation (Break)	1000	%	ASTM D638
Flexural Modulus	800	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	15	kJ/m ²	ASTM D256

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