

# Arak LLDPE HD5050UA

High Density Polyethylene

Shazand (Arak) Petrochemical Corporation

Message:

HD5050UA is an ultra-violet light stabilised high density polyethylene copolymergrade with a narrow molecular weight distribution, specially developed forinjection 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.

General Information			
Additive	UV Stabilizer		
Features	Copolymer		
	Food Contact Acceptable		
	Good UV Resistance		
	Good Weather Resistance		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	Low Temperature Impact Resistance		
	Narrow Molecular Weight Distribution		
Uses	Caps		
	Closures		
	Containers		
	Crates		
	Engineering Parts		
	Pails		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.950	g/cm <sup>3</sup>	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 <sup>2</sup>	ASTM D256

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