

Sidi Kerir Petrochemicals Co.

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INJECTION MOULDING

HD 5740 UA

Food Approved

HD 5740 UA is a high density polyethylene copolymer grade with a narrow molecular weight distribution, specially developed for injection moulding of heavy duty articles

Application :

1. Large dustbins and pails
2. Pallet boxes
3. Fish crates
4. Technical moulding

TYPICAL PROPERTIES

Property	Value	Unit	Method of test
Melt flow rate(2.16Kg)	4	g/10 min	ISO 1133
Density	957	Kg/m ³	ISO 1872/1
Tensile strength at yield	27	MPa	BP 13B/ 1
Elongation at break	1000	%	BP 13B/ 1
Flexural modulus	1250	MPa	ISO 178-1975
BSCR,50,23CO	>50	hours	ASTM D 1693
Charpy impact resistance	10	KJ/M ²	ISO 179

AA: Stabilisation – **KJ:** High Slip Antiblock – **AF:** Processing Aid – **LJ:** Medium Slip, High Antiblock – **FB:** Low Gel Film – **EA:** Standard unmodified except for antioxidant – **GA:** Gas Phase Process – **UA:** UV Stabilisation

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INJECTION MOULDING

HD 6070 UA

HD 6070 UA is a high density polyethylene grade with a narrow molecular weight distribution, suitable for a wide range of injection moulding applications.

HD 6070 UA has the following characteristics :

1. *easy processing*
2. *high rigidity*
3. *good impact strength*
4. *high warpage resistance*

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Applications :

1. *crates*
2. *boxes*
3. *seats*
4. *pallets*

TYPICAL PROPERTIES

Property	Value	Unit	Method of test
Melt flow rate(2.16Kg)	7.5	g/10 min	ISO 1133
Density	960	Kg/m ³	ISO 1872/1
Tensile strength at yield	31	MPa	BP 13B/ 1
Elongation at break	>1000	%	BP 13B/ 1
Flexural modulus	1400	MPa	ISO 178-1975
BSCR, 50,23CO	55	Hours	ASTM D 1693
Charpy impact resistance	6	KJ/M ²	ISO 179

AA: Stabilisation – **KJ:** High Slip Antiblock – **AF:** Processing Aid – **LJ:** Medium Slip, High Antiblock – **FB:** Low Gel Film – **EA:** Standard unmodified except for antioxidant – **GA:** Gas Phase Process – **UA:** UV Stabilisation

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INJECTION MOULDING

HD 5211 EA

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HD 5211 EA has the following characteristics :

1. *good flow properties*
2. *good impact resistance*
3. *good ESCR*

Applications :

1. *Paint pails, bottle caps*
2. *House wares, toys*

TYPICAL PROPERTIES

Property	Value	Unit	Method of test
Melt flow rate(2.16Kg)	11	g/10 min	ISO 1133
Density	952	Kg/m ³	ISO 1872/1
Tensile strength at yield	27	MPa	BP 13B/ 1
Elongation at break	>1000	%	BP 13B/ 1
Flexural modulus	1150	MPa	ISO 178-1975
Charpy impact resistance	5	KJ/M ²	ISO 179
ESCR,F50,23Co	50	hours	ISO 1693

AA: Stabilisation – **KJ:** High Slip Antiblock – **AF:** Processing Aid – **LJ:** Medium Slip, High Antiblock – **FB:** Low Gel Film – **EA:** Standard unmodified except for antioxidant – **GA:** Gas Phase Process – **UA:** UV Stabilisation

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INJECTION MOULDING

HD 5218 EA

Food Approved

HD 5218 EA is an easy flow high density polyethylene copolymer grade with a narrow molecular weight distribution, suitable for thin wall injection moulding applications.

HD 5218 EA has the following characteristics :

1. *good flow*
2. *high warpage food containers*
3. *suitable for fast cycling applications*

Applications :

1. *house wares*
2. *thin walled food containers*
3. *PET bottle base cup*

TYPICAL PROPERTIES

Property	Value	Unit	Method of test
Melt flow rate(2.16Kg)	18	g/10 min	ISO 1133
Density	952	Kg/m ³	ISO 1872/1
Tensile strength at yield	27	MPa	BP 13B/ 1
Elongation at break	>1000	%	BP 13B/ 1
Flexural modulus	1050	MPa	ISO 178-1975
Charpy impact resistance	5	KJ/m ²	ISO 179
Vicat softening T0	123	°C	ISO 306

AA: Stabilisation – **KJ:** High Slip Antiblock – **AF:** Processing Aid – **LJ:** Medium Slip, High Antiblock – **FB:** Low Gel Film – **EA:** Standard unmodified except for antioxidant – **GA:** Gas Phase Process – **UA:** UV Stabilisation

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INJECTION MOULDING

HD 5226 EA

HD 5226 EA is an easy flow high density polyethylene copolymer grade with narrow molecular weight distribution, suitable for thin injection moulding applications..

HD 5226 EA has the following characteristics :

1. *high flow*
2. *high warpage resistance*
3. *suitable for very fast cycling applications*

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Applications :

1. *house wares*
2. *thin walled food containers*
3. *PET bottle base cup*

TYPICAL PROPERTIES

Property	Value	Unit	Method of test
Melt flow rate(2.16Kg)	26	g/10 min	ISO 1133
Density	953	Kg/m ³	ISO 1872/1
Tensile strength at yield	27	MPa	BP 13B/ 1
Elongation at break	>800	%	BP 13B/ 1
Flexural modulus	1050	MPa	ISO 178-1975
Charpy impact resistance	4	KJ/m ²	ISO 179
Vicat softening T0	123	°C	ISO 306

AA: Stabilisation – **KJ:** High Slip Antiblock – **AF:** Processing Aid – **LJ:** Medium Slip, High Antiblock – **FB:** Low Gel Film – **EA:** Standard unmodified except for antioxidant – **GA:** Gas Phase Process – **UA:** UV Stabilisation

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MDPE-ROTATIONAL-MOULDING

HD 3840 UA

UV stabilized medium density polyethylene copolymer grade with a narrow molecular weight distribution

Applications.

HD 3840 UA has the following characteristics:

- *Excellent process-ability*
- *Impact strength*
- *High stiffness*
- *Excellent internal and external surface finish*

TYPICAL PROPERTIES Applications:

1. *Rotational moulded items: tanks, containers*
2. *Injection moulded technical parts and closure.*

TYPICAL PROPERTIES

Method of test	Unit	Value	Property
ISO 1133	g/10 min	4	Melt flow rate(2.16Kg)
ISO 1872/1	Kg/m3	938	Density
BP 13B/ 1	MPa	18	Tensile strength at yield
BP 13B/ 1	%	1400	Elongation at break
ISO 178-1975	MPa	750	Flexural modulus
Bp 13C/26	KJ/m2	20	Charpy impact resistance
ASTMD 1693	hours	200	ESCR, F50, 23 oC

ESCR: Environmental Stress Cracking Resistance