

7030 MD

TANK GRADE

Rotational Moulding
Powder LLDPE
Density (g/cm³) **0.939**
MFI (g/10min) **3.0**

HEXATHENE™ 7030 MD series is a linear medium density Hexene based polyethylene resin, specifically designed for the rotational moulding process of large tanks and products that require excellent impact strength and rigidity. It offers a good balance of flow and mechanical properties while other key features such as impact, strength and environmental stress crack resistance are maintained.

HEXATHENE™ 7030 MD contains a high level of U.V and anti oxidant stabilizers designed for the harsh outdoor Australian environment (minimum U.V 12 rating).

HEXATHENE™ 7030 MD is available in the standard tank colour range and other custom colours on request.

Compliance

The HEXATHENE™ 7030 MD Tank colour range complies with AS/NZS: 4766. Polyethylene storage tanks for water and chemicals. The potable (drinking) water standard AS4020 and Australian food contact requirements (AS2070 Parts 1 & 8) are also covered in this range.

Special Features

- Wide process windows
- Excellent impact strength
- Compliant with AS/NZS: 4766 tank standard etc.
- Good flow properties
- Excellent ESCR

Applications

- Large water and chemical tanks
- Marine equipment
- Pallets, storage bins
- Underground tanks

Physical Properties

	Physical Characteristic	Value	Units	Test Method
1	Melt Flow Index (MFI)	3.0	g /10min	ASTM D 1238
2	Density	0.939	g /cm ³	ASTM D 1505
3	Softening Point (Vicat)	117	°C	ASTM D 1525
4	ESCR F50 (100% IGEPAL)	>1000	Hrs	ASTM D 1693
5	Tensile Strength at Yield	17	MPa	ASTM D 638
6	Elongation at Break	>600	%	ASTM D 638
7	Flexural Modulus	660	MPa	ASTM D 790
8	Notched 120d impact @ -40	95	J/M	ASTM D 256
9	Shore Hardness	60	Shore D	ASTM D 2240
10	Heat Distortion Temp (0.45MPa)	62	°C	ASTM D 648
11	Heat Distortion Temp (1.82 MPa)	42	°C	ASTM D 648

1. Average Data values for Base Resin for specifications not to be used.

2. Values quoted are results on natural, unpigmented product. These values may vary on products that contain pigmentation or other additives; therefore prototype testing is highly recommended.

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7032

TANK GRADE

Rotational Moulding
Powder LLDPE
Density (g/cm³) **0.938**
MFI (g/10min) **3.2**

HEXATHENE™ 7032 series is a linear low density Hexene based polyethylene resin, specifically designed for the rotational moulding process of large tanks and products that require a high degree of rigidity. It offers a good balance of flow and mechanical properties while other key features such as impact, strength and environmental stress crack resistance are maintained.

HEXATHENE™ 7032 contains a high level of U.V and anti oxidant stabilizers designed for the harsh outdoor Australian environment (minimum U.V 12 rating).

HEXATHENE™ 7032 is available in the standard tank colour range and other custom colours on request.

Compliance

The HEXATHENE™ 7032 Tank colour range complies with AS/NZS: 4766. Polyethylene storage tanks for water and chemicals. The potable (drinking) water standard AS4020 and Australian food contact requirements (AS2070 Parts 1&8) are also covered in this range.

Special Features

- Excellent processability
- Good chemical resistance
- Compliant with AS/NZS 4766 tank standard
- High ESCR
- Excellent long term creep resistance

Applications

- Large water and chemical tanks
- Septic tanks and silos
- Materials handling
- General moulding

Physical Properties

	Physical Characteristic	Value	Units	Test Method
1	Melt Flow Index (MFI)	3.2	g /10min	ASTM D 1238
2	Density	0.938	g /cm ³	ASTM D 1505
3	Softening Point (Vicat)	120	°C	ASTM D 1525
4	ESCR F50 (100% IGEPAL)	>1000	Hrs	ASTM D 1693
5	Tensile Strength at Yield	18	MPa	ASTM D 638
6	Elongation at Break	>600	%	ASTM D 638
7	Flexural Modulus	760	MPa	ASTM D 790
8	Notched 120d impact @ -40	104	J/M	ASTM D 256
9	Shore Hardness	55	Shore D	ASTM D 2240
10	Heat Distortion Temp (0.45MPa)	74	°C	ASTM D 648
11	Heat Distortion Temp (1.82 MPa)	34	°C	ASTM D 648

1. Average Data values for Base Resin for specifications not to be used.

2. Values quoted are results on natural, unpigmented product. These values may vary on products that contain pigmentation or other additives; therefore prototype testing is highly recommended.

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7035 FR

TANK GRADE

Rotational Moulding
Powder LLDPE
Density (g/cm³) **0.939**
MFI (g/10min) **3.5**

HEXATHENE™ 7035 FR series is a high density, low melt index; Hexene based polyethylene resin, specifically designed for the rotational moulding process of products that require excellent chemical, fuel resistance etc. This specialist grade has passed EN13341 material testing for kerosene storage applications and holds the TUV certificate for storage of diesel fuel.

HEXATHENE™ 7035 FR contains a high level of U.V and anti oxidant stabilizers designed for the harsh outdoor Australian environment (minimum U.V 10 rating).

HEXATHENE™ 7035 FR is available in Heritage Red or Grey.

Compliance

The HEXATHENE™ 7035 FR range complies with AS/NZS: 4766. Polyethylene storage tanks for water and chemicals. The potable (drinking) water standard AS4020 and Australian food contact requirements (AS2070 Parts 1 & 8) are also covered in this range.

Special Features

- TUV certified for diesel fuel
- EN13341 material tested for Kerosene.
- Good chemical resistance
- Compliant with AS/NZS: 4766 tank standard etc.
- High ESCR

Applications

- Large chemical and water tanks
- Mobile and fixed Diesel / Kerosene tanks
- Silos and Underground tanks
- General moulding

Physical Properties

	Physical Characteristic	Value	Units	Test Method
1	Melt Flow Index (MFI)	3.5	g /10min	ASTM D 1238
2	Density	0.939	g /cm ³	ASTM D 1505
3	Softening Point (Vicat)	122	°C	ASTM D 1525
4	ESCR F50 (100% IGEPAL)	>1000	Hrs	ASTM D 1693
5	Tensile Strength at Yield	17.7	MPa	ASTM D 638
6	Elongation at Break	>600	%	ASTM D 638
7	Flexural Modulus	790	MPa	ASTM D 790
8	Notched 120d impact @ -40	101	J/M	ASTM D 256
9	Shore Hardness	60	Shore D	ASTM D 2240
10	Heat Distortion Temp (0.45MPa)	76	°C	ASTM D 648
11	Heat Distortion Temp (1.82 MPa)	48	°C	ASTM D 648

1. Average Data values for Base Resin for specifications not to be used.

2. Values quoted are results on natural, unpigmented product. These values may vary on products that contain pigmentation or other additives; therefore prototype testing is highly recommended.

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7050

GENERAL PURPOSE

Rotational Moulding
Powder LLDPE
Density (g/cm³) **0.935**
MFI (g/10min) **5.0**

HEXATHENE™ 7050 series is a linear low density Hexene based polyethylene resin, specifically designed for the rotational moulding process of general purpose products that require strength and flexibility. It offers a good balance of flow and mechanical properties while other key features such as impact, strength and environmental stress crack resistance are maintained.

HEXATHENE™ 7050 contains a high level of U.V and anti oxidant stabilizers designed for the harsh outdoor Australian environment (minimum U.V 12 rating).

HEXATHENE™ 7050 is available in the standard tank colour range and other custom colours on request. Custom colours will be specifically formulated to achieve a high U.V rating for any demand (minimum U.V 12 rating).

Compliance

The HEXATHENE™ 7050 colour range complies with AS/NZS: 4766. Polyethylene storage tanks for water and chemicals. The potable (drinking) water standard AS4020 and Australian food contact requirements (AS2070 Parts 1 & 8) are also covered in this range.

Special Features

- Excellent processability
- Excellent surface finish
- High ESCR and chemical resistance
- Excellent flexibility and impact strength

Applications

- Playground equipment
- Water Tanks under 5000Litres
- Leisure craft
- Display and promotional products
- General moulding

Physical Properties

	Physical Characteristic	Value	Units	Test Method
1	Melt Flow Index (MFI)	5.0	g /10min	ASTM D 1238
2	Density	0.935	g /cm ³	ASTM D 1505
3	Softening Point (Vicat)	114	°C	ASTM D 1525
4	ESCR F50 (100% IGEPAL)	>1000	Hrs	ASTM D 1693
5	Tensile Strength at Yield	15.7	MPa	ASTM D 638
6	Elongation at Break	>500	%	ASTM D 638
7	Flexural Modulus	730	MPa	ASTM D 790
8	Notched 120d impact @ -40	90	J/M	ASTM D 256
9	Shore Hardness	55	Shore D	ASTM D 2240
10	Heat Distortion Temp (0.45MPa)	64	°C	ASTM D 648
11	Heat Distortion Temp (1.82 MPa)	34	°C	ASTM D 648

1. Average Data values for Base Resin for specifications not to be used.

2. Values quoted are results on natural, unpigmented product. These values may vary on products that contain pigmentation or other additives; therefore prototype testing is highly recommended.

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