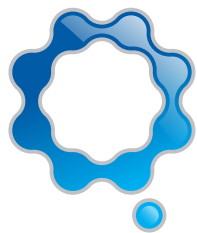
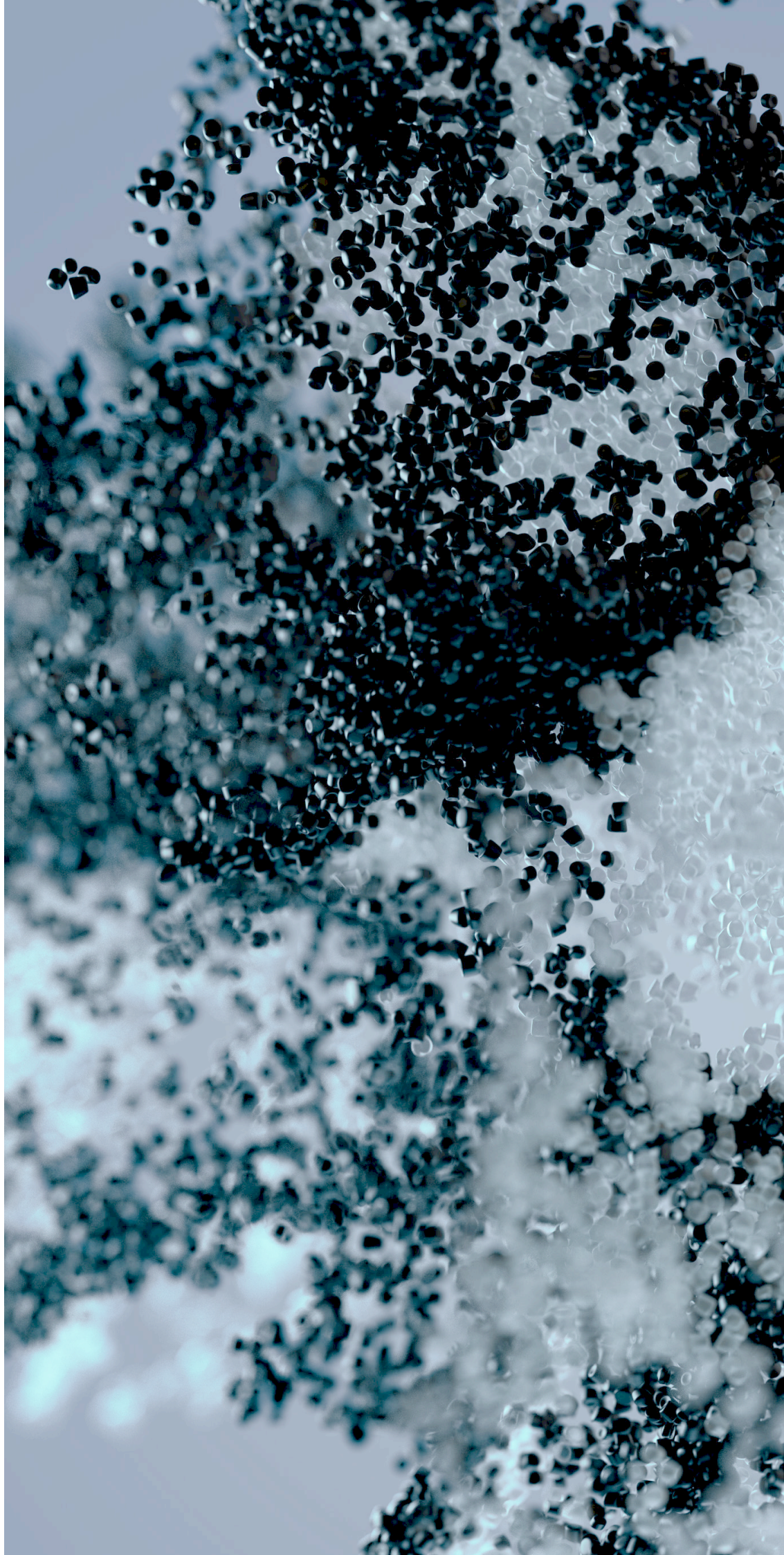


POLYETHYLENE AT A GLANCE



Qenos



Alkadyne® PE100 Pipe Extrusion Grades

Grade	Melt Index* (g/10 min@190°C, 5.00kg)	Density# (g/cm ³)	Applications
HDF193B	0.3	0.961	High Density black PE100 type resin certified to AS/NZS 4131, for use in pressure pipes and fittings. Excellent low sag properties and throughput, suitable for the majority of PE100 pipe dimensions.
HDF193N	0.3	0.952	High Density natural resin for extrusion into a full range of non standard pipe products and as a base for PE100 type striping and jacket compounds.
HCR193B ¹	0.2	0.959	High Density black PE100 type resin with high stress crack resistance (HSCR) certified to AS/NZS 4131 and in accordance with PIPA guideline POP016, for use in pressure pipes and fittings. Designed for trenchless installations and high abuse environments.

Notes: 1. PE100 HSCR striping compounds available upon request in blue, yellow, cream, purple and white.

Alkadyne® PE Pipe Extrusion Grades

Grade	Melt Index* (g/10 min@190°C, 5.00kg)	Density# (g/cm ³)	Applications
GM7655	0.6	0.954	High Density natural high molecular weight resin for extrusion into a full range of non standard pipe products.

Alkatane® HDPE Tape and Monofilament Grades

Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm ³)	Applications
GF7740F2	0.4	0.950	Extrusion applications including stretched tape, monofilament, tarpaulins, and blown film.

Alkatuff® LLDPE Rotational Moulding Grades

Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm ³)	Applications
LL711UV	3	0.938	Applications requiring excellent ESCR, chemical resistance ¹ , stiffness, toughness and UV protection, such as water and chemical tanks, septic systems and kayaks.
LL705UV	5	0.935	Applications requiring high ESCR, chemical resistance ¹ , toughness, stiffness and high level UV stabiliser, such as leisure craft, playground equipment, IBCs and agricultural tanks.
LL755	5	0.935	Applications requiring high ESCR, chemical resistance ¹ , toughness and stiffness. Incorporation of suitable UV stabilisation is required for outdoor applications.
LL710UV	10	0.930	High speed intricate applications requiring good ESCR, chemical resistance ¹ , toughness and UV protection, such as consumer goods and playground equipment.

Notes: 1. The level of chemical resistance is a function of product design and environmental conditions. Contact Qenos for further information.

Alkathene® LDPE Film Grades				Additives			Applications						
Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density#1 (g/cm³)	Applications	Antiblock	Slip²	Heavy Duty Bags	Shrink	Produce	Carry Bags	Bread	Cling Wrap	Freezer Film	Overwrap
XDS34	0.30	0.922	Heavy duty sacks, pallet wrap and industrial applications requiring heavy gauge film. Additive free.			✓	✓						
LDF433	0.45	0.925	Heavy duty sacks, pallet wrap and industrial applications requiring medium to heavy gauge film with increased stiffness.	✓		✓	✓						
LDD201	0.45	0.922	General purpose medium to heavy gauge film for heavy duty bags and shrink film and for use as a blend component.			✓	✓						
LDD203	0.45	0.922	General purpose medium to heavy gauge film for heavy duty bags and shrink film requiring antiblock, and for use as a blend component.	✓		✓	✓						
LDD204	0.45	0.922	General purpose medium to heavy gauge film for heavy duty bags and shrink film where a medium level of slip is required.	✓	M	✓	✓						
LDD205	0.45	0.922	General purpose medium to heavy gauge film for heavy duty bags, frozen food and produce bags where a high level of slip is required or for use as a blend component.	✓	H	✓	✓	✓				✓	
LDH210	1.0	0.922	Bundle shrink and other medium gauge film applications such as produce bags, carry bags and for blending into other film grades.				✓	✓	✓				
LDH215	1.0	0.922	General purpose medium gauge film for produce bags and carry bags, frozen food where a high level of slip is required or for use as a blend component.	✓	H			✓	✓				
XJF143	2.5	0.920	Additive free, general purpose low gauge film for overwrap and other applications and for use as a blend component.										✓
LDJ226	2.5	0.922	Bundle shrink, low gauge shrink film and general purpose applications where a medium level of slip and antistatic are required.	✓	M³		✓		✓				✓
LD0220MS	2.5	0.922	High quality low gauge film for lamination and overwrap applications where a medium level of slip is required.	✓	M								✓
LDJ225	2.5	0.922	High quality, low gauge film primarily intended for bread bags and overwrap but also general purpose applications where a very high level of slip is required.	✓	VH					✓			✓
XLF197	5.5	0.920	High quality, very thin gauge and high clarity film primarily intended for food and packaging wrap and for dry-cleaning film. Additive free.								✓		

Notes: 1. Base resin density; antiblock adds 0.001 – 0.002 g/cm³. 2. VH = Very High Slip, H = High Slip, M = Medium Slip 3. Based on antistatic additive.

Alkatuff® LLDPE Film Grades				Additives			Applications									
Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density#1 (g/cm³)	Applications	Antiblock	Slip²	Processing Aid	Heavy Duty Bags	Stretch	Agricultural Film	General Purpose	Garbage Bags	Lamination	FFS	Freezer Film	Overwrap	Bubble wrap
LL438	0.8	0.922	Heavy duty sacks, agricultural films, lamination and form, fill and seal packaging where enhanced toughness and sealing characteristics are desired.			✓	✓		✓	✓		✓	✓	✓		
LL501	1.0	0.925	General purpose industrial, agricultural and heavy duty films and as a blend component to improve film handling in converting and packaging operations.				✓			✓						
LL601	1.0	0.925	General purpose industrial, agricultural and heavy duty films and as a blend component to improve film handling in converting and packaging operations.	✓	H				✓	✓					✓	
LL425	2.5	0.918	High quality cast film for applications that require toughness, high clarity and processability.					✓								✓
LL525	2.5	0.935	General purpose cast film applications requiring high tensile strength and stiffness, such as bubble wrap and personal care products.							✓						✓

Notes: 1. Base resin density; antiblock adds 0.001 – 0.002 g/cm³. 2. VH = Very High Slip, H = High Slip, M = Medium Slip

Alkamax® mLLDPE Film Grades				Additives				Applications											
Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density#1 (g/cm³)	Applications	Antiblock	Slip²	Processing aid	Heavy Duty Bags	Stretch	Produce	Carry Bags	Bread	Agricultural Film	General Purpose	Ice Bags	Lamination	FFS	Freezer Film	Overwrap	Liners
				ML1810PN	1.0	0.918	Heavy duty bags, industrial and agricultural films, and form, fill and seal applications and ice bags where outstanding toughness, sealing and hot tack properties are desirable or for downgauging of existing film structures.			✓	✓		✓	✓	✓	✓	✓	✓	✓
ML1810PS	1.0	0.918	Heavy duty bags, industrial and form, fill and seal applications and ice bags where outstanding toughness, sealing, hot tack properties and high slip are desirable or for downgauging of existing film structures.	✓	H	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
ML2610PN	1.0	0.926	Heavy duty bags, lamination, industrial and form, fill and seal applications where outstanding stiffness, toughness, optical and sealing properties are desirable or for downgauging of existing film structures.			✓	✓		✓	✓	✓		✓		✓	✓	✓		✓
ML1710SC	1.0	0.917	Stretch cling films (with addition of appropriate cling additive) and other film applications where outstanding toughness, optical and sealing properties are desirable or for downgauging of existing film structures.			✓		✓				✓							

Notes: 1. Base resin density; antiblock adds 0.001 – 0.002 g/cm³. 2. VH = Very High Slip, H = High Slip, M = Medium Slip

Alkatane® HDPE Film Grades				Applications			
Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm³)	Applications	Carry Bags	General Purpose	Liners	Barrier Film
				GM4755F	0.10	0.955	Carry bags and liners where high impact, toughness and stiffness are desirable and as a blend component into LDPE and LLDPE films for heavy duty applications.

Alkatane® HDPE Blow Moulding Grades			
Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm³)	Applications
GM7655	0.09	0.954	Blow moulded containers including household and industrial chemical (HIC). Suitable for larger part mouldings. Exceptional ESCR.
GF7660	0.30	0.959	Household and industrial chemical (HIC) containers, including detergent and pharmaceutical bottles. Excellent ESCR.
GE4760	0.60	0.964	Blow moulded water, dairy and fruit juice bottles.

Alkathene® LDPE Extrusion Coating Grades

Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm ³)	Applications
XLC177	4.5	0.922	Applications including milkboard and fabric extrusion coating where very good drawdown, low moisture vapour transmission rates and excellent hot tack are desirable. Additive free.
WNC199	8.0	0.918	Liquids packaging and other sensitive food packaging laminates where excellent heat seal, low extractables, good melt strength and low odour and taint are desirable. Additive free.
LDN248	7.6	0.922	Liquids packaging and other sensitive food packaging laminates where low extractables and low odour and taint are desirable. Additive free.
LD1217	12	0.918	Liquids packaging and other sensitive food packaging laminates where high line speed, low neck-in, low extractables and low odour and taint are desirable. Additive free.

Alkathene® LDPE Injection Moulding Grades

Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm ³)	Applications
XDS34	0.3	0.922	Small part injection moulded caps and closures. Additive free.
XJF143	2.5	0.920	Injection moulded caps and closures, and thick-walled sections. Additive free.
LDN248	7.6	0.922	Injection moulded caps and closures. Additive free.
WRM124	22	0.920	High flow resin for caps, housewares and toys where excellent gloss, low warpage and flow to toughness ratio are desirable. Additive free.
LD6622	70	0.922	High flow resin for lids and other thin wall injection moulding applications. Additive free.

Alkatuff® LLDPE Injection Moulding Grades

Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm ³)	Applications
LL820	20	0.925	Injection moulding and compounding applications such as housewares and lids.

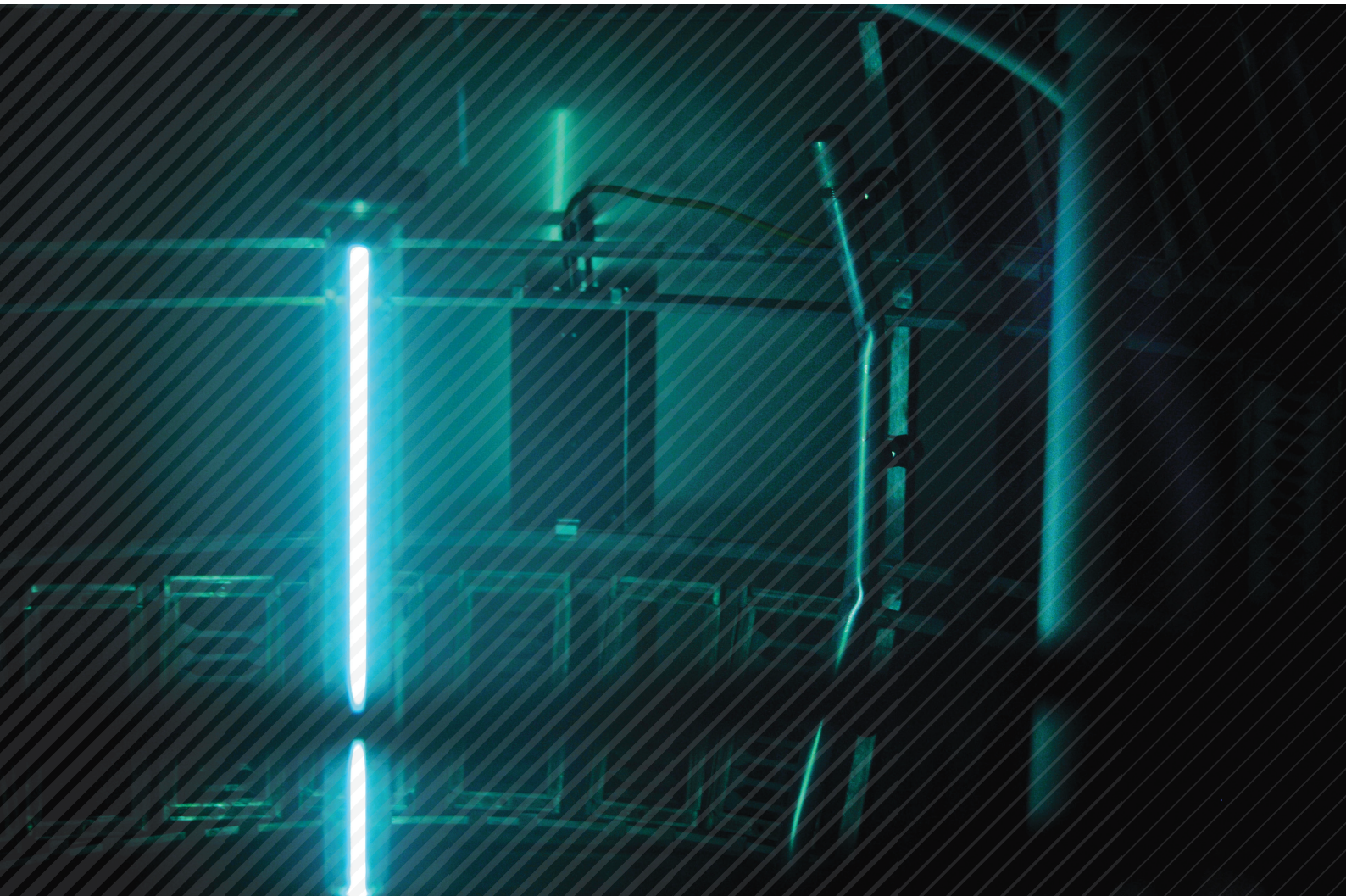
Alkatane® HDPE Injection Moulding Grades

Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm ³)	Applications
HD0390	4	0.955	Mobile garbage bins, stackable crates for transport, storage and bottles and industrial mouldings where very good mechanical properties are desirable.
HD0490	4.5	0.955	Mobile garbage bins, stackable crates for transport, storage and bottles, and industrial mouldings where very good mechanical properties are desirable.
HD0790	7	0.956	Mobile garbage bin lids, industrial pails, crates, closures and sealant cartridges where a good balance between flow and impact resistance is desirable.
HD1090	10	0.956	Industrial pails, crates, closures and sealant cartridges where a good balance between flow and impact resistance is desirable.
HD2090	20	0.956	Housewares, thin-walled containers and closures where excellent mould flow and flexibility is required.
HD3690	36	0.956	Housewares, thin-walled mouldings and closures where excellent mould flow and flexibility is required.

Genos imported polymers and additives

In addition to Genos manufactured Polyethylene, Genos eXsource offers a world class range of local and international specialty and sustainable polymers and chemicals from manufacturers including Viva Energy Polymers, LyondellBassel, Repsol, and BASF. These polymers and additives are used across a broad spectrum of industries such as Consumer & Industrial Films, Fluid Engineering (pipes and fittings), Building and Construction (residential and infrastructure), Food Packaging (flexible and rigid), General Industrial and Consumer Housewares. For the full range, please visit www.exsource.com or call your Account Manager.

*Melt Index according to ASTM D1238 unless otherwise annotated. #Density according to ASTM D1505 unless otherwise annotated.



Front Cover: Qenos produces natural polyethylene for a wide range of applications and black polyethylene for pipe extrusion.

Rear Cover: The standard for UV performance for PE Water Tanks specified in AS/NZS 4766 PE Tanks for the Storage of Chemicals and Water is 8,000 hours of uninterrupted exposure to an intense and specifically developed UV light source. Qenos exhaustively tests the long term UV performance of its Rotational Moulding Resins under conditions of controlled irradiance, chamber temperature and humidity and repeated rain cycles. Alkatuff® 711UV achieves a class leading UV performance exceeding 20,000 hours against the required standards, ensuring that Alkatuff® 711UV is “Tough in the Sun”.

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