Qenos

Qenos | Ingenious Transformations



Alkadyn	Alkadyne® PE100 Pipe Extrusion Grades											
Grade	<b>Melt Index*</b> (g/10 min@190°C, 5.00kg)	Density# (g/cm³)	Applications									
HDF193B	0.3	0.961 <sup>1</sup>	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.									
HDF145B	0.2	0.9611	High Density black PE100 type resin certified to AS/NZS 4131, for use in pressure pipes and fittings.  Exceptional low sag properties and throughput, suitable for the most challenging pipe dimensions.									
HDF193N	0.3	0.9521	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.									

Notes: 1. ASTM D1505/D2839

Alkadyr	Alkadyne® PE Pipe Extrusion Grades											
Grade	<b>Melt Index*</b> (g/10 min@190°C, 5.00kg)	<b>Density</b> # (g/cm³)	Applications									
MD0898	0.7	0.9521	Medium Density black PE80B type resin certified to AS/NZS 4131 for use in pressure pipes and fittings.									
MD0592	0.6	0.9421	Medium Density natural resin for extrusion into a full range of non standard pipe products and as a base for PE80 type striping and jacket compounds.									
GM7655	0.6	0.9541	High Density natural high molecular weight resin for extrusion into a full range of non standard pipe products.									
MDF169	1.0	0.9431	Medium Density natural high molecular weight resin for extrusion into a full range of non standard pipe products.									
LL0228	1.72	0.9231	Linear Low Density resin for use in pipe extrusion applications.									

Notes: 1. ASTM D1505/D2839 2. D1238@190°C, 2.16kg

Alkadyn	Alkadyne® PE Wire and Cable Grades										
Grade	<b>Melt Index*</b> (g/10 min@190°C, 2.16kg)	Density# (g/cm³)	Applications								
MD0592	0.12	0.9421	Designed for extrusion into a full range of wire and cable products where natural Medium Density resins are required.								
MD0898-1	0.12	0.953 <sup>1</sup>	Designed as general purpose jacketing compound for buried wires and cables where abrasion and cut through resistance is required.								

Notes: 1. ASTM D1505/D2839

Alkatan	Alkatane® HDPE Tape and Monofilament Grades										
Grade	<b>Melt Index*</b> (g/10 min@190°C, 2.16kg)	Density# (g/cm³)	Applications								
GF7740F2	0.4	0.9501	Extrusion applications including stretched tape, monofilament, tarpaulins, and over-pouches for medicinal products.								

Notes: 1. ASTM D1505/D2839

Alkatuf	Alkatuff® LLDPE Rotational Moulding Grades											
Grade	<b>Melt Index*</b> (g/10 min@190°C, 2.16kg)	Density# (g/cm³)	Applications									
LL711UV	3	0.938	Applications requiring excellent ESCR, chemical resistance <sup>1</sup> , 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 <sup>1</sup> , toughness, stiffness and high level UV stabiliser, such as leisure craft, playground equipment and agricultural tanks.									
LL755	5	0.935	Applications requiring high ESCR, chemical resistance <sup>1</sup> , 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 <sup>1</sup> , toughness and UV protection, such as consumer goods and playground equipment.									

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

<sup>\*</sup> Melt Index according to ASTM D1238 unless otherwise annotated. # Density according to ASTM D1505 unless otherwise annotated.

Alkathe	ne® LDPE Filr	n Grade	s	Addi	itives		Applications								
Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm³)	Applications	Antiblock	Slip <sup>2</sup>	Heavy Duty Bags	Shrink	Produce	Carry Bags	Bread	Cling Wrap	Freezer Film	Overwran		
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.	<b>✓</b>		<b>✓</b>	<b>√</b>								
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.	✓	М	✓	✓								
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.	<b>✓</b>	Н	<b>✓</b>	✓	✓				✓			
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.				<b>✓</b>	✓	<b>✓</b>						
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.	1	Н			✓	✓						
XJF143	2.5	0.921	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.	✓	M¹		✓		✓				✓		
LD0220MS	2.5	0.922	High quality low gauge film for lamination and overwrap applications where a medium level of slip is required.	✓	М								✓		
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.	1	VH					✓			✓		
XLF197	5.5	0.920	High quality, very thin gauge and high clarity film primarily intended for food and packaging wrap and for drycleaning film. Additive free.								✓				

Notes: 1. Based on antistat additive 2. VH = Very High Slip, H = High Slip, M = Medium Slip

Alkatu	ff® LLDPE Film	n Grades	3	Additives					Applications								
Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm³)	Applications	Antiblock	Slip¹	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.				<b>√</b>			✓							
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.	<b>✓</b>	Н					✓	✓				✓		
LL425	2.5	0.918	High quality cast film for applications that require toughness, high clarity and processability.					✓								<b>√</b>	
LL525	2.5	0.935	General purpose cast film applications requiring high tensile strength and stiffness, such as bubble wrap and personal care products.							✓						<b>√</b>	

Notes: 1. VH = Very High Slip, H = High Slip, M = Medium Slip

 $<sup>{}^{*}\,\</sup>mathsf{Melt}\,\mathsf{Index}\,\mathsf{according}\,\mathsf{to}\,\mathsf{ASTM}\,\mathsf{D1238}\,\mathsf{unless}\,\mathsf{otherwise}\,\mathsf{annotated}.\,\,{}^{\#}\,\mathsf{Density}\,\mathsf{according}\,\mathsf{to}\,\mathsf{ASTM}\,\mathsf{D1505}\,\mathsf{unless}\,\mathsf{otherwise}\,\mathsf{annotated}.$ 

Alkama	x® mLLDPE Fi	ilm Grad	es	Additives Applications															
Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm³)	Applications	Antiblock	Slip1	Processingaid	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.	✓	Н	<b>~</b>	✓		✓	✓	✓		✓	✓	✓	✓	✓	✓	✓
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.			<b>✓</b>	✓		✓	✓	✓		✓		✓	<b>✓</b>	✓		✓
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.			<b>✓</b>		✓				✓							

Notes: 1. VH = Very High Slip, H = High Slip, M = Medium Slip

Alkatane® HDPE Film Grades										
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 <sup>1</sup>	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.	✓	<b>√</b>	✓				
HDF895	0.80	0.9621	Moisture barrier and blend component into LDPE and LLDPE films to enhance stiffness. Blend component in core layer for high clarity coextruded films.	✓	✓	✓	<b>✓</b>			

Notes: 1. ASTM D1505/D2839

Alkatan	Alkatane® HDPE Blow Moulding Grades										
Grade	<b>Melt Index*</b> (g/10 min@190°C, 2.16kg)	Density# (g/cm³)	Applications								
HD0840	0.06	0.953 <sup>1</sup>	Large part blow mouldings, especially blow moulded self-supported drums and tanks (25 – 220 litres). Exceptional ESCR.								
HD1155	0.07	0.953 <sup>1</sup>	Large part blow mouldings, including 25 litre to 220 litre tanks and drums. Exceptional ESCR.								
GM7655	0.09	0.9541	Blow moulded containers including household and industrial chemical (HIC). Suitable for larger part mouldings. Exceptional ESCR.								
GF7660	0.30	0.959 <sup>1</sup>	Household and industrial chemical (HIC) containers, including detergent and pharmaceutical bottles. Excellent ESCR.								
GE4760	0.60	0.9641	Blow moulded water, dairy and fruit juice bottles.								
HD5148	0.83	0.9621	High speed dairy packaging applications and other thin walled bottles such as milk, cream, fruit juice and cordial.								

Notes: 1. ASTM D1505/D2839

 $<sup>{}^{*}\,\</sup>text{Melt Index according to ASTM D1238 unless otherwise annotated.}\,\,{}^{\#}\,\text{Density according to ASTM D1505 unless otherwise annotated.}$ 

Alkathe	Alkathene® LDPE Extrusion Coating Grades										
Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm³)	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.								

Alkathe	Alkathene® LDPE Injection Moulding Grades									
Grade	Melt Index* (g/10 min@190°C, 2.16kg)	Density# (g/cm³)	Applications							
XDS34	0.3	0.922	Small part injection moulded caps and closures. Additive free.							
XJF143	2.5	0.921	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 reseal lids, 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	<b>Melt Index*</b> (g/10 min@190°C, 2.16kg)		Applications		
LL820	20	0.925	Injection moulding and compounding applications such as housewares and lids.		

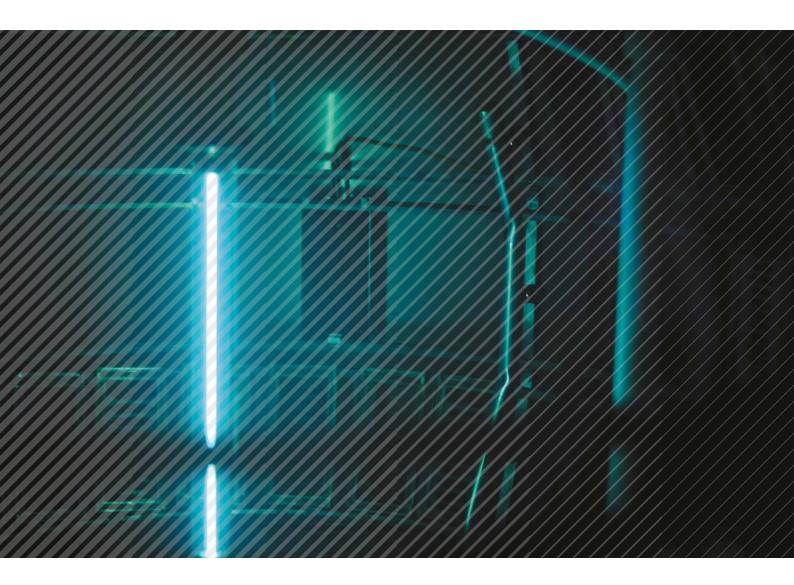
Alkatane® HDPE Injection Moulding Grades				
Grade	<b>Melt Index*</b> (g/10 min@190°C, 2.16kg)	Density# (g/cm³)	Applications	
HD0390	4	0.955	Stackable crates for transport, storage and bottles and industrial mouldings where very good mechanical properties are desirable.	
HD0397UV	4	0.955	Mouldings requiring long-term weatherability, including mobile garbage bins, crates, and industrial mouldings where very good mechanical properties are desirable.	
HD0490	4.5	0.955	Stackable crates for transport, storage and bottles, and industrial mouldings where very good mechanical properties are desirable.	
HD0499UV	4.5	0.955	Mouldings requiring long-term weatherability, including mobile garbage bins, crates, and industrial mouldings where very good mechanical properties are desirable.	
HD0790	7	0.956	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.	
HD1099UV	10	0.956	Mouldings requiring long term weatherability including industrial pails, crates, and tote boxes 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.	

 $<sup>{}^*\</sup>text{Melt Index according to ASTM D1238 unless otherwise annotated.} \ {}^\#\text{Density according to ASTM D1505 unless otherwise annotated.}$ 

## Qenos imported polymers and additives

Complementing our Australian manufactured Polyethylene grades, Qenos acts as a local distributor for a wide range of imported polymers and additives including rubbers, elastomers, adhesives, plastomers, EVA, BOPP Film, EPS, antioxidants and titanium dioxide. For the full Qenos range, please refer to the Qenos website, Customer Service or your Account Manager.





Front Cover: Pellet geometry and pellet quality can have a significant effect on material flow and the efficiency of feeding polyethylene into an extruder. Qenos measures pellet quality using a pellet shape and size distribution analyser, a device that photographs around 10,000 pellets in 4 minutes, digitally analyses the images and generates a report on pellet quality. Where a drift in the pellet quality is detected, adjustments are made proactively to maintain high product integrity.

**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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