

A young girl with dark hair in pigtails, wearing a grey shirt, is smiling broadly and covering her eyes with her hands. She is sitting in a car, with the interior visible in the background.

ARLANXEO

Performance Elastomers

50 YEARS **Keltan®**

EP(D)M AT A GLANCE

Keltan® 9565Q is an ultra-high molecular weight EPDM with a tailored molecular structure enabling it to match the strength and resilience of Natural Rubber. Unlike Natural Rubber, however, it maintains its superior properties even after exposure to high temperature. ARLANXEO, the dynamic partner for anti-vibration parts.

www.arlanxeo.com

Keltan® Grades Portfolio NAFTA

Grade name	Viscosity		Monomer content			Other properties		Polymer Structure
	Test conditions	Setpoint	Ethylene content wt. %	Third Monomer		Extender oil		
		MU g/10 min.		type –	content wt. %	content phr	type	
Keltan® 2450	ML(1+4) 125°C	28	48	ENB	4.1			CLCB
Keltan® 2470E	ML(1+4) 125°C	22	69	ENB	4.2			CLCB
Keltan® 2470S	ML(1+4) 125°C	25	69	ENB	4.2			CLCB
Keltan® 2650	ML(1+4) 125°C	25	53	ENB	6.0			CLCB
Keltan® 2750	ML(1+4) 125°C	28	48	ENB	7.8			CLCB
Keltan® 3050	ML(1+4) 100°C	51	49	–	0.0			N
Keltan® 3250	ML(1+4) 125°C	33	55	ENB	2.3			N
Keltan® 3470	ML(1+4) 125°C	36	68	ENB	4.6			CLCB
Keltan® 3960Q	ML(1+8) 100°C	54	56	ENB	11.0			N
Keltan® 3973	ML(1+4) 125°C	34	66	ENB	9.0	30	Clear	CLCB
Keltan® 4450	ML(1+4) 125°C	46	52	ENB	4.3			N
Keltan® 4450S	ML(1+4) 125°C	42	52	ENB	4.3			CLCB
Keltan® 4465	ML(1+4) 125°C	48	56	ENB	4.1	50	Clear	B
Keltan® 4577	ML(1+4) 125°C	46	66	ENB	5.1	75	Clear	CLCB
Keltan® 4869C	ML(1+4) 125°C	48	62	ENB	8.7	100	Clear	CLCB
Keltan® 4969Q	ML(1+8) 150°C	30	62	ENB	9.4	100	Clear	N
Keltan® 5260Q	ML(1+4) 125°C	55	62	ENB	2.3			N
Keltan® 5465Q	ML(1+8) 150°C	37	64	ENB	4.0	50	Clear	N
Keltan® 5469C	ML(1+4) 125°C	52	58	ENB	4.5	100	Clear	CLCB
Keltan® 5469Q	ML(1+8) 150°C	38	59	ENB	4.0	100	Clear	N
Keltan® 5470	ML(1+4) 125°C	55	70	ENB	4.6			CLCB
Keltan® 5470Q	ML(1+4) 125°C	57	67	ENB	4.7			N
Keltan® 6160D	ML(1+4) 125°C	63	64	DCPD	1.2			M
Keltan® 6471	ML(1+4) 125°C	65	67	ENB	4.7	15	Clear	N
Keltan® 6850Q	ML(1+4) 125°C	60	53	ENB	8.0			N
Keltan® 6950C	ML(1+4) 125°C	65	44	ENB	9.0			CLCB
Keltan® 6951C	ML(1+4) 125°C	63	44	ENB	9.0	15	Clear	CLCB
Keltan® 7270Q	ML(1+4) 125°C	72	67	ENB	2.8			N
Keltan® 7470Q	ML(1+4) 125°C	70	67	ENB	4.7			N
Keltan® 7550	ML(1+4) 125°C	70	54	ENB	5.0			B
Keltan® 7752C	ML(1+8) 150°C	53	45	ENB	7.5	20	Clear	CLCB
Keltan® 8550C	ML(1+4) 125°C	80	48	ENB	5.5			CLCB
Keltan® 8570C	ML(1+4) 125°C	80	66	ENB	5.0			CLCB
Keltan® 9565Q	ML(1+8) 150°C	67	62	ENB	5.5	50	Clear	N
Keltan® 9650Q	ML(1+8) 150°C	60	54	ENB	6.5			N
Keltan® 9950C	ML(1+8) 150°C	60	44	ENB	9.0			CLCB
Keltan® 13561C	ML(1+8) 150°C	92	56	ENB	5.5	15	Clear	CLCB
Keltan® Eco 5470	ML(1+4) 125°C	55	70	ENB	4.6			CLCB
Keltan® Eco 6950	ML(1+4) 125°C	65	48	ENB	9.0			CLCB
Keltan® Eco 8550	ML(1+4) 125°C	80	55	ENB	5.5			CLCB
Keltan® 0500R	190°C / 2.16 kg	11	49	–	0.0			N
Keltan® 0500RS	190°C / 2.16 kg	6.5	49	–	0.0			N
Keltan® 1500R	190°C / 2.16 kg	2.55	49	–	0.0			N

CLCB = Controlled Long Chain Branching
 N = Narrow molecular weight distribution
 M = Medium molecular weight distribution

B = Broad molecular weight distribution
 VB = Very broad molecular weight distribution

Packaging							
Wrapping foil		Bale		Box			
Type	Thickness microns	Weight kg	Form	Number bales	Weight kg	Supported	Material
LDPE	50	25	Standard bales	40	1000	No	Wood & Cardboard
LDPE	50	25	Standard bales	36	900	No	Cardboard
LDPE	50	25	Quasi friable bales	40	1000	No	Wood & Cardboard
9% EVA	60	25	Standard bales	40	1000	No	Wood & Cardboard
LDPE	50	25	Standard bales	40	1000	No	Wood & Cardboard
9% EVA	70	25	Standard bales	36	900	No	Cardboard
9% EVA	70	25	Standard bales	36	900	No	Cardboard
LDPE	50	25	Quasi friable bales	40	1000	No	Wood & Cardboard
LDPE	50	25	Standard bales	36	900	No	Cardboard
LDPE	50	25	Standard bales	40	1000	No	Wood & Cardboard
LDPE	50	25	Standard bales	40	1000	No	Wood & Cardboard
LDPE	50	25	Standard bales	40	1000	No	Wood & Cardboard
LDPE	50	25	Standard bales	40	1000	No	Wood & Cardboard
LDPE	50	25	Standard bales	40	1000	No	Wood & Cardboard
LDPE	50	25	Standard bales	36	900	No	Cardboard
LDPE	50	25	Standard bales	42	1050	No	Metal
LDPE	50	25	Standard bales	36	900	No	Cardboard
LDPE	50	25	Standard bales	36	900	No	Cardboard
LDPE	50	25	Standard bales	36	900	No	Cardboard
LDPE	50	25	Standard bales	36	900	No	Cardboard
LDPE	50	25	Standard bales	30	750	Yes	Cardboard
LDPE	50	25	Friable bales	30	750	Yes	Cardboard
LDPE	50	25	Standard bales	40	1000	No	Wood & Cardboard
LDPE	50	25	Quasi friable bales	40	1000	No	Wood & Cardboard
LDPE	50	25	Standard bales	36	900	No	Cardboard
9% EVA	60	25	Standard bales	30	750	Yes	Cardboard
9% EVA	60	25	Standard bales	30	750	Yes	Cardboard
LDPE	50	25	Standard bales	30	750	No	Cardboard
LDPE	50	25	Friable bales	30	750	Yes	Cardboard
LDPE	50	35	Heavy bales	30	1050	No	Cardboard
9% EVA	60	25	Standard bales	36	900	No	Cardboard
LDPE	50	25	Quasi friable bales	36	900	No	Cardboard
LDPE	50	25	Quasi friable bales	36	900	No	Cardboard
LDPE	50	25	Standard bales	36	900	No	Cardboard
LDPE	50	25	Standard bales	36	900	No	Cardboard
9% EVA	60	25	Standard bales	30	750	Yes	Cardboard
LDPE	50	25	Friable bales	30	750	Yes	Cardboard
LDPE	50	25	Standard bales	30	750	Yes	Cardboard
LDPE	50	25	Standard bales	30	750	Yes	Cardboard
LDPE	50	25	Standard bales	30	750	Yes	Cardboard
-	-	22.7	Standard bales	30	681	Yes	Cardboard
-	-	22.7	Standard bales	30	681	Yes	Cardboard
-	-	22.7	Standard bales	30	681	Yes	Cardboard

ENB = Ethylidene norbornene

DCPD = Dicyclopentadiene

EVERY GRADE COMES WITH FULL TECHNICAL AND COMMERCIAL SUPPORT



■ Keltan® offers a broad range of products for interior as well as exterior automotive applications.

To make sure you get the most out of our products every Keltan® EP(D)M grade comes with the very best technical support and service. We believe in the synergy of all our technical experts around the world. This global brainpower is at your service through our local service teams. With ARLANXEO as your partner in Performance Elastomers you can be certain of fast, reliable and in-depth support, commercially and technically.

We can offer you extensive info packages with detailed data on every grade. For more information you can also visit our 24/7 available online technical service, connect.keltan.com.

Your direct contact for further information

Please direct any questions on Keltan® EP(D)M to one of the following addresses, contact your regional sales office or visit our technical online system: www.keltan.com

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Go bio-based with Keltan® Eco

Keltan® is the brand for all ARLANXEO EP(D)M grades. In 2017, Keltan EPDM marked its 50th anniversary. This well-established brand is best known for its premium quality and linked to best service, global partnership and sustainable innovation. Driven by sustainable innovation we developed Keltan® Eco, the world's first commercial EPDM produced in Brazil from bio-based feedstock. The ethylene used in this process is derived from ethanol produced from sugarcane.

Benefits of Keltan® Eco include:

- Bio-based content up to 70%, which can be validated by ASTM D6866 Carbon-14 test
- Uncompromised quality
- Reduced dependence on fossil resources
- Reduced carbon footprint

The Keltan® Eco grades have exactly the same specifications as their conventional counterparts, they are “drop-in” equivalents with one important difference: up to 70% of the content is bio-based! Thus, they offer an environmentally friendly alternative for any type of EPDM application.

Today these new bio-based EPDM grades are commercially applied in applications, such as low-weight, micro-porous automotive solid seals, recyclable TPVs, the official soccer World Cup match ball, flooring and window seals.

Global Keltan® nomenclature

Mooney viscosity ML(1+4) 125°C MU	ENB content weight %	Oil content parts hundred rubber
5 = 50 - 59 MU	4 = 4.0 - 4.9 wt.%	0 = 0 - 10 phr

Keltan® 5470 C

Crystallinity
5 = amorphous
6 = semi crystalline
7 = crystalline

Suffix
C = ACE™ grade
Q = Slurry grade
D = DCPD grade
L = Low Mooney
E = Electrical grade
S = Special grade
DE = Development

Keltan® reactive extrusion (REX) nomenclature

Mooney viscosity ML(1+4) 125°C MU	Grafting level* weight %
0 = 0-10 MU	00 = 0 wt. %

Keltan® 0500 R

Crystallinity
5 = amorphous
6 = semi crystalline
7 = crystalline

Suffix
R = REX grade
S = Special grade
DE = Development grade

CLCB = Controlled Long Chain Branching
N = Narrow molecular weight distribution
M = Medium molecular weight distribution
B = Broad molecular weight distribution

VB = Very broad molecular weight distribution
ENB = Ethylidene norbornene
DCPD = Dicyclopentadiene



Trial product:

(DE = Development product = trial product). The information contained herein is merely preliminary. Testing as to properties and applications is not final. Further information, including data which could change or add hazards with use, may be developed by the manufacturer, the user or a third-party institute. Such information may be needed to properly evaluate or use this product. Use is undertaken at the sole risk of the user.

Quality & Environmental Management:

Keltan® is produced under strict control regarding safety, environmental protection and quality. The whole supply chain, from production to customer service, is covered by ISO 9001 and ISO 14001 certification.

Product Safety:

Relevant safety data and references as well as the possibly necessary warning labels are to be found in the corresponding safety data sheets.

Health and Safety Information:

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the ARLANXEO products mentioned in this publication. For materials mentioned which are not ARLANXEO products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use and handling. This cannot be overemphasized. Information is available in several forms, e.g., material safety data sheets and product labels. Consult us through your ARLANXEO representative or the Health, Safety, Environment and Quality Department (HSEQ) of ARLANXEO.

Regulatory Compliance Information:

Some of the end uses of the products described in this publication must comply with applicable regulations, such as the FDA, BfR, NSF, USDA and CPSC. If you have any questions on the regulatory status of these products, contact your ARLANXEO representative.

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control.

Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale, which can be found at the ARLANXEO homepage. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and information.

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The logo for ARLANXEO, with 'ARLANXEO' in a bold, blue, sans-serif font. The 'E' is stylized with a red horizontal bar through its middle.

Performance Elastomers

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