



Secure your highest rape seed yields

High Yields & Proven Reliability
PT275 (NEW) & PT256

Normal straw hybrids

X-tra yield potential
PX126, PX113



Solutions for improved weed control
PT279CL (NEW), PT240CL
& PT200CL



Clearfield




Production System for Oilseed Rape

Protection against clubroot
PT242



Winter Oilseed Rape Hybrid Range 2018

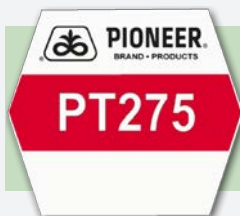
Table of Contents

	Page
Table of Contents	3
Normal Straw Hybrids	
PT275 NEW	4
PT256	6
Normal Straw Clearfield® Hybrids  <small>Clearfield Production System for Oilseed Rape</small>	
PT279CL NEW	8
PT240CL	10
PT200CL	11
Normal Straw Protector® Clubroot Resistant Hybrid 	
PT242	12
Maximus® Semi-Dwarf Hybrids 	
PX113	15
PX126	16
PX111CL	18
Winter Oilseed Rape Hybrid Range	19

For further information about Pioneer Winter Oilseed Rape hybrids please visit: www.pioneer.com/uk
Pioneer hybrids in this leaflet contain OG-INRA Technology from INRA, France

PT275

Normal Straw Hybrid

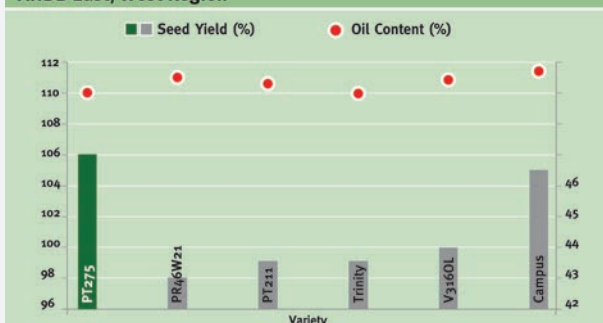


A new very high yielding AHDB RL Candidate hybrid that has a relatively short plant height for its type and very good light leaf spot resistance

PT275 is a NEW very high yielding Pioneer normal straw hybrid selected as a Candidate for the AHDB Recommended List in the East/West region.

- ▶ Very high gross output yield in UK trials.
- ▶ Very good light leaf spot resistance.
- ▶ A relatively short hybrid with good agronomics.
- ▶ Consistent yields across very different years.

PT275 - Gross Output Yield and Oil Content (%) AHDB East/West Region



Source: AHDB RL Database

Comparative Agronomic Scores

Variety	Oil Content (%)	Res. to Lodging	Stem Stiffness	Height (cm)	Earliness of Flowering	Earliness of Maturity	Res. to Light Leaf Spot	Res. to Stem Canker
PT275	45.5	8	7	154	4	6	7	5
PR46W21	45.7	8	8	154	5	6	4	3
PT211	45.6	9	8	160	4	6	6	5
Trinity	45.2	8	7	153	4	6	6	6
V3160L	45.4	8	8	158	5	6	6	5
Campus	45.6	8	7	161	4	6	6	5

Source: AHDB Recommended List Database

On the 1 – 9 scale a higher figure indicates the character is shown to a higher degree

PT275

Normal Straw Hybrid



Management

- ▶ Pioneer winter oilseed rape seed is usually supplied in bags containing 1.5 million seeds. A 1.5 million seed bag will sow three hectares at a typical seeding rate of 50 seeds per square metre. PT275 has a very high yield potential which is most likely to be obtained with an established spring time plant population around 25 plants per square metre. If establishment losses are expected to be greater, or lower, than allowed for by this typical seeding rate, i.e. establishment losses of 50%, then adjust the sowing rate accordingly.
- ▶ Whatever the method of sowing ensure that seed is planted into a fine tilth with adequate moisture before the latest safe sowing date for the field being sown. The latest safe sowing date will vary according to different factors such as the latitude of the location, the height above sea level and field exposure.
- ▶ PT275 has a light leaf spot resistance score of 7 which indicates severe infections are less likely than with many other varieties.
- ▶ Growth regulator and fungicide applications may enhance yield. Please take advice from a suitably qualified agronomist and follow rates recommended by the product manufacturer.

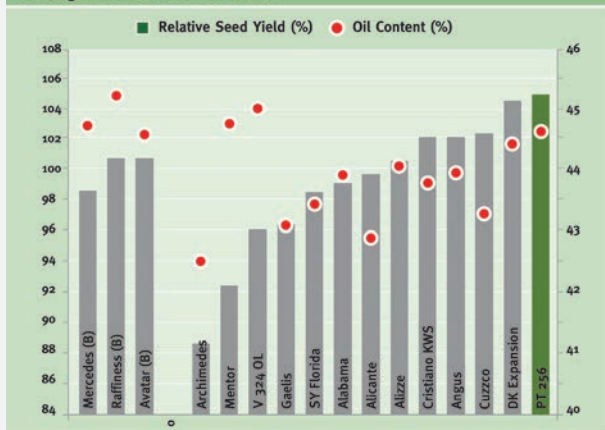
PT256

Normal Straw Hybrid

A high yielding Pioneer normal straw hybrid

- ▶ PT256 has excellent inherited stem canker resistance based not on only one major gene but on many which confer resistance to different races of the pathogen.
- ▶ PT256 has a relatively short plant height.
- ▶ PT256 has very good lodging resistance.

PT256: EU Trials 1 and 2, Germany, 2016-2017 Average of Two Years of Trials



Source: Official Trials of the Länder / SFG / LK SH / UFOP; As of: 09.10.2017; Two years of results.
B = Reference varieties; Oil yield: Pioneer calculation where 100 = 1.99 t / ha, 25 locations

DuPont Pioneer UK Winter Oilseed Rape PACTS® Strip Trials Summary Harvests 2016 and 2017

Variety	Number of Locations	Seed Yield Tonnes/Hectare at 9% Grain Moisture	Oil Content Percentage at 9% Grain Moisture	Gross Output Tonnes Per Hectare - adjusted for oil content (%)	Gross Output Yield Index - adjusted for oil content (%)
PT211	7	3.830	44.6%	4.284	100.3%
PT256 (C)	7	3.776	45.2%	4.272	100.0%
PT234	6	3.588	44.6%	4.013	93.9%
PX126*	4	3.593	44.7%	4.012	93.9%
PX113*	6	3.589	43.3%	3.892	91.1%
PT242**	5	3.554	43.5%	3.868	90.5%
PT235**	5	3.511	43.4%	3.808	89.1%

* MAXIMUS® SEMI-DWARF

**PROTECTOR® CLUBROOT

C = Control Hybrid

PT256

Normal Straw Hybrid



Comparative Agronomic Scores

Variety	Oil Content (%) Dry Matter	Resistance to Lodging	Earliness of Maturity	Resistance to Stem Canker
PT256	48.4	6.5	5.8	6.9
PR46W21	48.4	6.6	5.1	3.8
DK Explicit*	48.6	5.9	5.3	7.3
DK Exstorn*	47.9	5.5	5.6	7

Source: Pioneer European Research Trials and French Official Trials

On the 1 – 9 scale a higher figure indicates the character is shown to a higher degree

* = Competitor hybrid

Management

- ▶ PT256 has been independently tested for light leaf spot resistance in the high light leaf spot infection area of Scotland and achieved a score of 6.0.
- ▶ PT256 achieved an excellent stem canker resistance score of 6.9 in French Official Trials. PT256 stem canker resistance is a horizontal quantitative type of resistance providing protection against different races of phoma.
- ▶ The overall disease resistance package of PT256 is likely to lead to reduced leaf infection levels which may lessen the need for extra fungicide applications, or provide extra time to make planned fungicide applications.
- ▶ PT256 has very good resistance to lodging and has proven itself in commercial high lodging pressure situations. PT256 stands well and retains yield potential in situations where some other varieties will lodge and lose yield.



PT279CL

Normal Straw Clearfield® Hybrid

AHDB
CANDIDATE



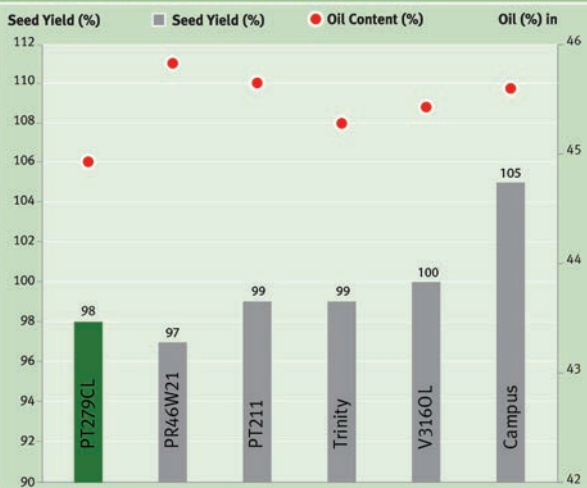
The only Clearfield® hybrid selected as a Candidate for the next AHDB Recommended List in the key East/West region

Clearfield
Production System

A NEW very high yielding Pioneer normal straw Clearfield® hybrid selected as a Candidate for the AHDB Recommended List in both the East/West and North regions.

- ▶ PT279CL is a new very high gross output Clearfield® hybrid.
- ▶ PT279CL is the only Clearfield® hybrid selected as a Candidate for the next AHDB Recommended List in the key East/West region.
- ▶ PT279CL scores a 6 for both light leaf spot and stem canker resistance.
- ▶ PT279CL scores an 8 for lodging resistance protecting yield in high lodging risk situations.
- ▶ In UK trials PT279CL has given a gross output that matches or exceeds that of many non-Clearfield® hybrids, even though in such trials no Clearfield® herbicides are used.

Treated Seed Yield and Oil Content (%)
PT279CL versus Non-Clearfield® Control Varieties



Source: AHDB RL Database, East/West Region

PT279CL

Normal Straw Clearfield® Hybrid

AHDB
CANDIDATE

Comparative Agronomic Scores

Variety	Oil Content (%)	Res. to Lodging	Stem Stiffness	Height (cm)	Earliness of Flowering	Earliness of Maturity	Res. to Light Leaf Spot	Res. to Stem Canker
PT279CL	44.9	8	7	157	5	6	6	6
PR46W21	45.7	8	8	154	5	6	4	3
PT211	45.6	9	8	160	4	6	6	5
Trinity	45.2	8	7	153	4	6	6	6
V316OL	45.4	8	8	158	5	6	6	5
Campus	45.6	8	7	161	4	6	6	5

Source: AHDB Recommended List Database

On the 1 – 9 scale a higher figure indicates the character is shown to a higher degree



Management

- ▶ PT279CL is approved for treatment with Clearfield® herbicides and its selection for AHDB trials in the East/West region shows the genetic yield potential of Clearfield® hybrids is now in line with that of current non-Clearfield hybrids.
- ▶ PT279CL does not have any notable agronomic weaknesses and trials have clearly shown it is widely adapted to the different parts of the UK.
- ▶ Good disease resistance for both light leaf spot and stem canker in PT279CL should ensure any disease progression occurs at typical rates and minimises the likelihood of having to bring forward planned fungicide applications.
- ▶ The good lodging resistance of PT279CL means that even in fertile situations only normal growth regulator applications are likely to be needed.

PT240CL

Normal Straw Hybrid



PT200CL

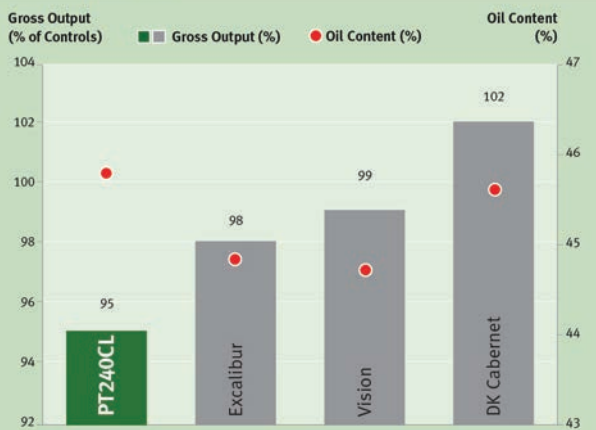
Normal Straw Hybrid



Improved Stem Canker Resistance

- ▶ PT240CL is a normal straw Clearfield® hybrid first registered in the United Kingdom in 2014.
- ▶ PT240CL combines a high seed yield with a high oil percentage and a high stem canker resistance score.

Gross Output Yield



PT240CL yield performance compared to the non Clearfield® control varieties
Source: UK Official Trial Results 2012 & 2013

Comparative Agronomic Scores

Variety	Oil Content (%)	Res. to Lodging	Stem Stiffness	Height (cm)	Earliness of Flowering	Earliness of Maturity	Res. to Light Leaf Spot	Res. to Stem Canker
PT240CL	45.8	8	7	152	5	6	5	7
Excalibur	44.8	7	7	142	7	6	6	6
Vision	44.7	8	8	143	5	6	6	6
DK Cabernet	45.6	9	8	145	4	5	6	7

Source: UK Official Trials

On the 1 – 9 scale a higher figure indicates the character is shown to a higher degree



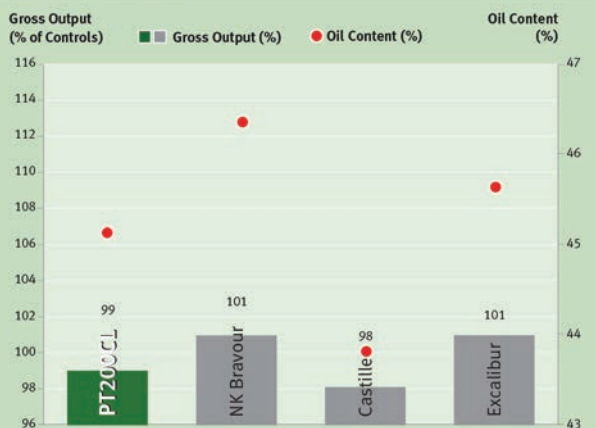
Management

- ! Fungicide and growth regulator applications may enhance yield. Please take advice from a suitably qualified agronomist and follow rates recommended by the product manufacturer.

High Yield Potential

- ▶ PT200CL was the first normal structure Clearfield® hybrid to be registered in the UK.
- ▶ PT200CL has good all round resistance to stem canker (6) and light leaf spot (6).
- ▶ PT200CL is the tallest Pioneer Clearfield® hybrid currently available.

Gross Output Yield



PT200CL yield performance in Official Trials 2009 & 2010
Source: DEFRA

Comparative Agronomic Scores

Variety	Oil Content (%)	Res. to Lodging	Stem Stiffness	Height (cm)	Earliness of Flowering	Earliness of Maturity	Res. to Light Leaf Spot	Res. to Stem Canker
PT200CL	45.1	8	7	166	5	6	6	6
NK Bravour	46.3	8	7	153	5	6	4	6
Castille	43.7	8	8	143	8	6	6	7
Excalibur	45.6	8	7	158	7	7	7	4

On the 1 – 9 scale a higher figure indicates the character is shown to a higher degree

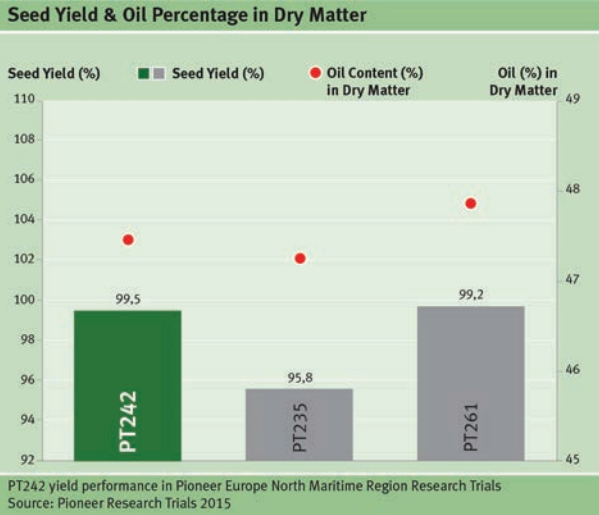


Management

- ! Growth regulator and fungicide applications may enhance yield. Please take advice from a suitably qualified agronomist and follow rates recommended by the product manufacturer.
- Suitable for the application of Clearfield® herbicides.

Hybrid with Pioneer Protector® Clubroot Resistance

- ▶ PT242 is a normal straw hybrid with Pioneer Protector® Clubroot resistance.
- ▶ PT242 has good stem canker resistance.
- ▶ PT242 is relatively fast ripening at harvest.



DuPont Pioneer UK Winter Oilseed Rape PACTS® Strip Trials Summary Harvests 2016 and 2017

Variety	Number of Locations	Seed Yield Tonnes/Hectare at 9% Grain Moisture	Oil Content Percentage at 9% Grain Moisture	Gross Output Tonnes Per Hectare - adjusted for oil content (%)	Gross Output Yield Index - adjusted for oil content (%)
PT211	7	3.830	44.6%	4.284	100.3%
PT256 (C)	7	3.776	45.2%	4.272	100.0%
PT234	6	3.588	44.6%	4.013	93.9%
PX126*	4	3.593	44.7%	4.012	93.9%
PX113*	6	3.589	43.3%	3.892	91.1%
PT242**	5	3.554	43.5%	3.868	90.5%
PT235**	5	3.511	43.4%	3.808	89.1%

* MAXIMUS® SEMI-DWARF
**PROTECTOR® CLUBROOT
C = Control Hybrid



Comparative Agronomic Scores

Variety	Oil Content (%) Dry Matter	Resistance to Lodging	Earliness of Maturity	Resistance to Stem Canker
PT242	47.5	6.6	5.5	6.0
PT235	47.2	6.4	5.2	5.7
PT261	47.9	6.4	5.8	5.0

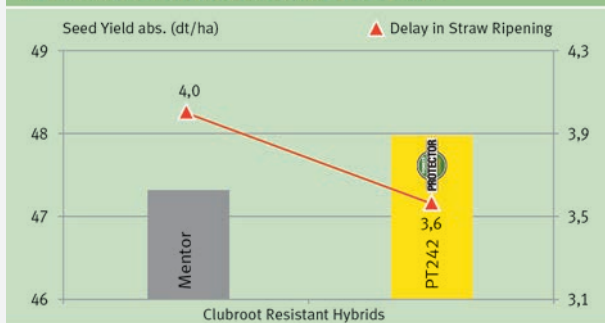
Source: Pioneer Research Trials
On the 1 – 9 scale a higher figure indicates the character is shown to a higher degree

Management

! Fungicide and growth regulator applications may enhance yield. Please take advice from a suitably qualified agronomist and follow rates recommended by the product manufacturer.



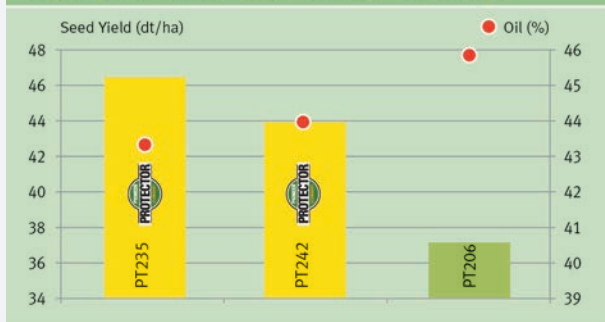
PT242 in BSV trial Germany, harvest 2015



Comparison of all Clubroot resistant hybrids in the BSV trial Germany, 2015.
Source: Amtliches Versuchswesen/SFG/LK SH/UFOP. 14.09.15. Seed yield: n = 18, ripening straw: n = 13.

In this chart all clubroot resistant hybrids are shown which have been tested in „Bundessortenversuch 2015“, Germany. The Pioneer Protector® Clubroot resistant normal straw hybrid PT242 outperformed the comparison hybrid in seed yield and is earlier in straw ripening. With the score of 3.6 (13 locations) PT242 is exactly on average of the 23 tested hybrids.

Testing of hybrids on Clubroot infected location



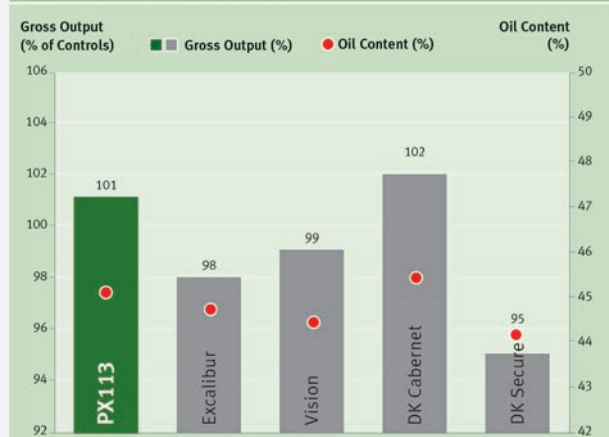
Source: Landesforschungsanstalt für Landwirtschaft und Fischerei, Mecklenburg Vorpommern, Germany. Testing of 7 Clubroot resistant hybrids and 5 non Clubroot resistant hybrids on a field with Clubroot infection (location Glashagen in North-East Germany) 2014/2015.

At the location Glashagen, Germany, clubroot resistant hybrids have been tested at conditions with infection from the „Landesanstalt Mecklenburg-Vorpommern“. Although the clubroot resistant hybrids PT235 and PT242 outperformed the non clubroot resistant hybrid PT206 in seed yield by 9.4 dt/ha respectively 9.9 dth/ha.

A Maximus® Semi-Dwarf Hybrid

- ▶ PX113 is a Pioneer Maximus® semi-dwarf hybrid first commercialised in the UK in 2014.
- ▶ PX113 is one the biggest selling Maximus® semi-dwarf hybrids.
- ▶ PX113 has outstanding all around agronomic strength with a standing ability score of 9, a stem canker resistance score of 8 and a light leaf spot resistance score of 7.
- ▶ PX113 is typically 124cm tall.
- ▶ PX113 provides oilseed rape growers with all the agronomic advantages and harvesting benefits associated with a Pioneer Maximus® hybrid.

Gross Output & Oil Percentage



PX113 yield performance versus control varieties
Source: UK Official Trials Harvest 2012 & 2013

Comparative Agronomic Scores

Variety	Oil Content (%)	Res. to Lodging	Stem Stiffness	Height (cm)	Earliness of Flowering	Earliness of Maturity	Res. to Light Leaf Spot	Res. to Stem Canker
PX113	45.0	9	8	124	5	6	7	8
Excalibur	44.7	7	7	142	7	6	6	6
Vision	44.4	8	8	143	5	6	6	6
DK Cabernet	45.4	9	8	145	4	5	6	7
DK Secure	44.1	9	9	136	4	6	7	7

Source: UK Official Trials
On the 1 – 9 scale a higher figure indicates the character is shown to a higher degree

Management

- ! Fungicide applications may enhance yield. Please take advice from a suitably qualified agronomist and follow rates recommended by the product manufacturer.

PX126

Maximus® Semi-Dwarf Hybrid



PX126

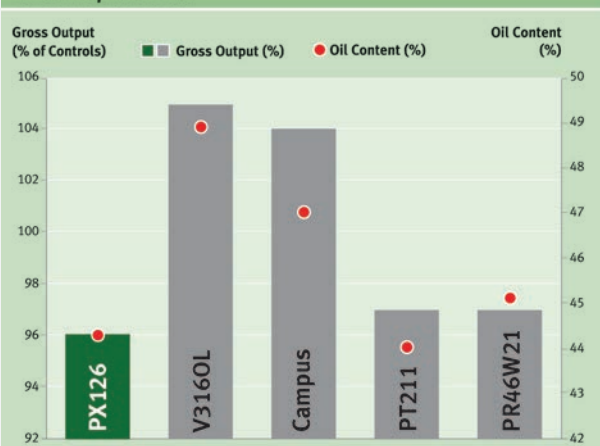
Maximus® Semi-Dwarf Hybrid



A Maximus® Semi-Dwarf Hybrid

- ▶ PX126 is sown in 2018 AHDB Recommended List trials.
- ▶ PX126 has a high oil content.
- ▶ PX126 is comparatively later flowering but not late to mature.
- ▶ In PACTS® Trials, where plots are much larger than in Official or AHDB Recommended List Trials, PX126 has given impressive comparative yields.
- ▶ The yield and agronomic benefits of Maximus® hybrids, such as PX126, are often missed when they are tested in small plot trials.

Gross Output & Oil %



PX126 yield performance versus non semi-dwarf control varieties
Source: AHDB RL Database



DuPont Pioneer UK Winter Oilseed Rape PACTS® Strip Trials Summary Harvests 2016 and 2017

Variety	Number of Locations	Seed Yield Tonnes/Hectare at 9% Grain Moisture	Oil Content Percentage at 9% Grain Moisture	Gross Output Tonnes Per Hectare - adjusted for oil content (%)	Gross Output Yield Index - adjusted for oil content (%)
PT211	7	3.830	44.6%	4.284	100.3%
PT256 (C)	7	3.776	45.2%	4.272	100.0%
PT234	6	3.588	44.6%	4.013	93.9%
PX126*	4	3.593	44.7%	4.012	93.9%
PX113*	6	3.589	43.3%	3.892	91.1%
PT242**	5	3.554	43.5%	3.868	90.5%
PT235**	5	3.511	43.4%	3.808	89.1%

* MAXIMUS® SEMI-DWARF

**PROTECTOR® CLUBROOT

C = Control Hybrid



Comparative Agronomic Scores

Variety	Oil Content (%)	Res. to Lodging	Stem Stiffness	Height (cm)	Earliness of Flowering	Earliness of Maturity	Res. to Light Leaf Spot	Res. to Stem Canker
PX126	45.8	8	9	9	5	5	7	5
V316OL	45.7	8	8	6	7	5	6	5
Campus	45.7	8	8	6	6	5	6	6
PT211	45.6	8	8	6	6	5	6	5
PR46W21	45.8	8	8	6	7	6	4	3

Source: AHDB Recommended List Database

On the 1-9 scale a higher figure indicates the character is shown to a higher degree

Management

- ! Fungicide applications may enhance yield. Please take advice from a suitably qualified agronomist and follow rates recommended by the product manufacturer.

PX111CL

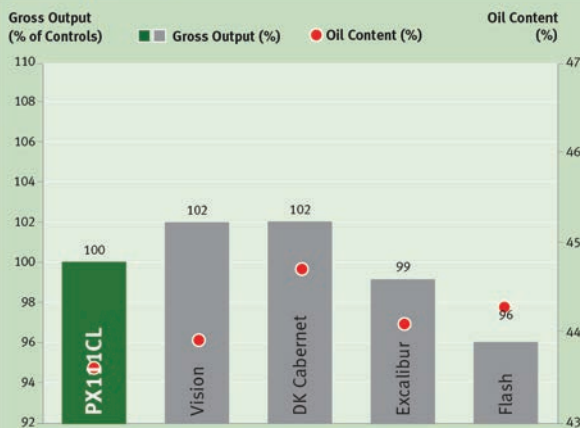
Maximus® Semi-Dwarf Hybrid



Clearfield® Tolerant Hybrid Developed from Conventional Breeding

- ▶ PX111CL is a Clearfield® MAXIMUS® semi-dwarf hybrid first registered in the United Kingdom in 2013.
- ▶ PX111CL was a candidate hybrid for the 2014/2015 AHDB (formerly HGCA) Recommended List in the East/West Region.

Gross Output Yield



PX111CL yield performance compared to control varieties.
Source: AHDB Recommended List Database, 2016

Comparative Agronomic Scores

Variety	Oil Content (%)	Res. to Lodging	Stem Stiffness	Height (cm)	Earliness of Flowering	Earliness of Maturity	Res. to Light Leaf Spot	Res. to Stem Canker
PX111CL	43.6	9	8	127	5	7	5	6
Vision	43.9	7	7	146	5	6	5	6
DK Cabernet	44.7	8	8	148	4	6	6	7
Excalibur	44.1	6	5	147	7	7	6	6
Flash	44.3	7	5	157	5	6	5	5

Data obtained from the AHDB Recommended List Database, 2016
On the 1–9 scale a higher figure indicates the character is shown to a higher degree



Management

- ! Fungicide applications may enhance yield. Please take advice from a suitably qualified agronomist and follow rates recommended by the product manufacturer.

Suitable for the application of Clearfield® herbicides.

DuPont Pioneer Winter Oilseed Rape Comparative Agronomic Descriptions 2018

Hybrid	Year of introduction	Oil content (%)	Lodging resistance	Stem stiffness	Height (cm)	Light leaf spot resistance	Stem canker resistance	Earliness of flowering	Earliness of maturity	Data Source
Normal Straw Hybrids										
PT275	NEW FOR 2018	45.5	8	7	154	7	5	4	6	1
PT256		45.7	8	8	168	6	8	6	5	3/4
Normal Straw Clearfield® Hybrids										
PT279CL	NEW FOR 2018	44.9	8	7	157	6	6	5	6	1
PT240CL		45.8	8	7	152	5	7	5	6	4
PT200CL		45.1	8	7	167	6	6	5	6	2
Normal Straw Protector® Clubroot Resistant Hybrid										
PT242		44.7	8	7	155	6	6	5	5	3/4
Maximus® Semi-Dwarf Hybrids										
PX126		45.8	8	9	123	7	5	5	5	1
PX113		45.6	9	8	124	7	8	5	6	2
Maximus Semi-Dwarf Clearfield® Hybrid										
PX111CL		43.6	9	8	126	5	6	5	7	1/2

Data Sources: 1 AHDB RL Database - www.cereals.ahdb.org.uk; 2 UK Official Trials; 3 Other EU located Official Trials; 4 Pioneer Trials
On the 1-9 scales, high figures indicate that a hybrid shows the character to a high degree (e.g. high resistance)



PIONEER®

**Pioneer Hi-Bred Northern Europe
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