



**2011 Grain Quality Profiler**

# CLEARFIELD XL729

CLEARFIELD

XL729

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XL729

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XL729

First released in 2007, CLEARFIELD XL729 is RiceTec's workhorse CLEARFIELD hybrid. With improved yield potential over previous RiceTec CLEARFIELD hybrids, CLEARFIELD XL729 has been a dominant force in the Southern long-grain market.

U.S. Market and Quality Type: Southern Long-Grain

## PHYSICAL PROPERTIES

### Grain Dimensions

Type	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1,000-Kernel wt. (g)
Paddy	9.43	2.66	1.98	3.54	25.77
Brown	7.25	2.31	1.77	3.14	21.77
Milled	6.88	2.27	1.74	3.03	20.13

## PHYSICOCHEMICAL PROPERTIES

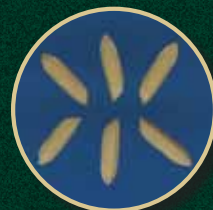
Apparent Amylose Content – 20.1%  
Alkali Spreading Value (1.7% KOH) – 4.7  
Gelatinization Temperature – 70.0°C

### Rapid Visco Analyzer

Peak Viscosity	263
Trough Viscosity	126
Breakdown*	137
Final Viscosity	247
Setback†	-16
Pasting Temperature	82.3°C

\*Breakdown =  
Peak Viscosity – Trough Viscosity

†Setback =  
Final Viscosity – Peak Viscosity



Paddy



Brown



Milled



CLEARFIELD  
 XL745  
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 XL745

Released in 2008, CLEARFIELD XL745 has become the dominant CLEARFIELD choice among rice growers. With improvements in grain retention and stress tolerance, CLEARFIELD XL745 has raised the bar. CLEARFIELD XL745 is the leading RiceTec product for 2011.

U.S. Market and Quality Type: Southern Long-Grain

## PHYSICAL PROPERTIES

### Grain Dimensions

Type	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1,000-Kernel wt. (g)
Paddy	9.61	2.71	1.97	3.54	26.66
Brown	7.44	2.35	1.76	3.17	22.72
Milled	7.13	2.31	1.71	3.08	21.00

## PHYSICOCHEMICAL PROPERTIES

Apparent Amylose Content – 20.1%  
 Alkali Spreading Value (1.7% KOH) – 4.9  
 Gelatinization Temperature – 70.3°C

### Rapid Visco Analyzer

Peak Viscosity	253
Trough Viscosity	128
Breakdown*	125
Final Viscosity	247
Setback†	-6
Pasting Temperature	82.7°C

\*Breakdown =  
 Peak Viscosity – Trough Viscosity

†Setback =  
 Final Viscosity – Peak Viscosity



Paddy



Brown



Milled



CLEARFIELD  
XP756  
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XP756

CLEARFIELD XP756 is a new release for 2011. This hybrid is late-maturing, allowing growers to spread harvest without sacrificing planting time. With improved sheath blight tolerance and better grain retention than CLEARFIELD XL745, this hybrid carries RiceTec's industry-leading disease package on the CLEARFIELD platform.  
U.S. Market and Quality Type: Southern Long-Grain

## PHYSICAL PROPERTIES

### Grain Dimensions

Type	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1,000-Kernel wt. (g)
Paddy	9.23	2.70	2.00	3.42	25.80
Brown	6.90	2.32	1.79	2.97	21.93
Milled	6.55	2.28	1.73	2.87	20.47

## PHYSICOCHEMICAL PROPERTIES

Apparent Amylose Content – 20.7%  
Alkali Spreading Value (1.7% KOH) – 3.9  
Gelatinization Temperature – 72.7°C

### Rapid Visco Analyzer

Peak Viscosity	282
Trough Viscosity	146
Breakdown*	136
Final Viscosity	278
Setback†	-4
Pasting Temperature	83.1°C

\*Breakdown =  
Peak Viscosity – Trough Viscosity

†Setback =  
Final Viscosity – Peak Viscosity



Paddy



Brown



Milled



# XL723

# XL723

# XL723

# XL723

# XL723

# XL723

Released in 2005, XL723 is an early-maturing conventional long-grain hybrid. It has exhibited excellent yield potential, good straw strength, market-leading disease resistance, and stable milling yields. XL723 is the workhorse of RiceTec's 2011 conventional hybrid lineup.

U.S. Market and Quality Type: Southern Long-Grain

## PHYSICAL PROPERTIES

### Grain Dimensions

Type	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1,000-Kernel wt. (g)
Paddy	9.68	2.52	1.94	3.84	25.91
Brown	7.51	2.24	1.81	3.35	22.00
Milled	7.08	2.15	1.70	3.29	19.77

## PHYSICOCHEMICAL PROPERTIES

Apparent Amylose Content – 20.5%

Alkali Spreading Value (1.7% KOH) – 4.8

Gelatinization Temperature – 70.5°C

### Rapid Visco Analyzer

Peak Viscosity	257
Trough Viscosity	124
Breakdown*	133
Final Viscosity	247
Setback†	-10
Pasting Temperature	82.7°C

\*Breakdown =  
Peak Viscosity – Trough Viscosity

†Setback =  
Final Viscosity – Peak Viscosity



Paddy



Brown



Milled



# XP753

# XP753

# XP753

# XP753

# XP753

# XP753

Making its debut in 2011, XP753 is an early-maturing conventional long-grain hybrid. It has exhibited excellent yield potential, good straw strength, improved grain retention and excellent disease tolerance. XP753 is very similar in maturity and plant type to XL723.

U.S. Market and Quality Type: Southern Long-Grain

## PHYSICAL PROPERTIES

### Grain Dimensions

Type	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1,000-Kernel wt. (g)
Paddy	9.24	2.48	1.93	3.73	24.75
Brown	7.15	2.14	1.73	3.34	20.04
Milled	6.84	2.09	1.67	3.27	18.10

## PHYSICOCHEMICAL PROPERTIES

Apparent Amylose Content – 18.1%

Alkali Spreading Value (1.7% KOH) – 3.0

Gelatinization Temperature – 73.7°C

### Rapid Visco Analyzer

Peak Viscosity	240
Trough Viscosity	125
Breakdown*	115
Final Viscosity	243
Setback†	+3
Pasting Temperature	86.7°C

\*Breakdown =  
Peak Viscosity – Trough Viscosity

†Setback =  
Final Viscosity – Peak Viscosity



Paddy



Brown



Milled



XP754  
XP754  
XP754

New for 2011, XP754 is a late-maturing, conventional hybrid with improved grain retention and higher tolerance to sheath blight. XP754 matures approximately 10 days later than XL723, which will allow growers to plant quickly and spread harvest, allowing for better grain quality. U.S. Market and Quality Type: Southern Long-Grain

## PHYSICAL PROPERTIES

### Grain Dimensions

Type	Length (mm)	Width (mm)	Thickness (mm)	L/W Ratio	1,000-Kernel wt. (g)
Paddy	9.29	2.69	2.00	3.45	25.44
Brown	6.93	2.31	1.80	3.00	22.00
Milled	6.57	2.27	1.72	2.90	19.56

## PHYSICOCHEMICAL PROPERTIES

Apparent Amylose Content – 20.2%  
Alkali Spreading Value (1.7% KOH) – 3.9  
Gelatinization Temperature – 73.3°C

### Rapid Visco Analyzer

Peak Viscosity	286
Trough Viscosity	148
Breakdown*	138
Final Viscosity	277
Setback†	-9
Pasting Temperature	83.3°C

\*Breakdown =  
Peak Viscosity – Trough Viscosity

†Setback =  
Final Viscosity – Peak Viscosity



Paddy



Brown



Milled





<b>Seed Characteristics</b>						
Seed Count (2010 avg. seeds/lb)	20,200	20,000	19,000	18,800	21,800	19,000
Standard Seed Treatment <sup>5</sup>	MARZD	MARZD	MARZD	MARZD	MARZD	MARZD
<b>Management Recommendations</b>						
Soil Type	any	any	any	any	any	any
Base Seeding Rate (seeds/acre)	500,000	500,000	500,000	500,000	500,000	500,000
Total Nitrogen (lbs of N)	120-150	120-150	120-150	120-150	120-150	120-150
Preflood (lbs of N)	90-120	90-120	90-120	90-120	90-120	90-120
Late Boot (lbs of N)	30	30	30	30	30	30
<b>Disease Characteristics<sup>6</sup></b>						
Blast <sup>7</sup>	R	R	R	R	R	R
Sheath Blight	MS	MS	MR	MS	MS	MR
Straighthead	MR	MR	MS	MR	MS	MS
Kernel Smut	MS	MS	MS	MR	MS	MS
False Smut	MS	MS	MS	MS	MS	MS
Stem Rot	S	S	S	S	S	S
Bacterial Panicle Blight	MR	MR	MR	MR	MR	MR
Narrow Brown Leaf Spot	MR	MR	MR	MR	MR	MR

<sup>1</sup> RiceTec hybrid characteristics are determined from data collected from specific RiceTec and/or University field trials and are not a guarantee of performance, nor do they constitute a warranty of fitness for a particular use.

<sup>2</sup> Performance based on replicated head-to-head comparisons; CLEARFIELD hybrids vs. CL151; Standard hybrids vs. Cheniere; (% advantage, % wins, # of comparisons, # of years)

<sup>3</sup> Milling averages taken from head-to-head comparisons in planting date trials

<sup>4</sup> Ratoon potential of full-season hybrids may be reduced if harvest is delayed due to later planting.

<sup>5</sup> M = Maxim, A = Apron Max, R = Gibberellic Acid, Z = Zinc, D = Dynasty; Insecticide seed treatments available as overtreatment from licensed seed treaters

<sup>6</sup> R = Resistant, MR = Moderately Resistant, MS = Moderately Susceptible, S = Susceptible, VS = Very Susceptible; Although RiceTec hybrids normally do not require fungicide treatment, fields should be scouted closely for diseases and treated with fungicides when necessary. Consider field history and environment conditions when making fungicide decisions. Apply preventive applications of fungicide if justified by field history for kernel smut, false smut, and/or *Cercospora* (narrow brown leaf spot).

<sup>7</sup> RiceTec hybrids have shown field resistance to common strains of rice blast fungus. Possible susceptibility to unusual strains of rice blast fungus, which thus far have been rare on one hybrid in the field to date, is being analyzed under controlled conditions in the laboratory and greenhouse.

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