

# Polska IPA

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **41**
- SRM **6.7**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **120 liter(s)**
- Trub loss **5 %**
- Size with trub loss **126 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **151.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **87 liter(s)**
- Total mash volume **116 liter(s)**

## Steps

- Temp **68 C**, Time **60 min**
- Temp **78 C**, Time **15 min**

## Mash step by step

- Heat up **87 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **60 min** at **68C**
- Keep mash **15 min** at **78C**
- Sparge using **93.8 liter(s)** of **76C** water or to achieve **151.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	20 kg (69%)	79 %	6
Grain	Strzegom Pszeniczny	5 kg (17.2%)	81 %	6
Grain	Strzegom Karmel 50	4 kg (13.8%)	75 %	50

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	150 g	60 min	10 %
Boil	Oktawia	100 g	60 min	7.1 %
Aroma (end of boil)	Lunga	100 g	0 min	6 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Us05	Ale	Dry	69 g	Safale