

# Pan Młody

- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **24**
- SRM **34.8**
- Style **Dry Stout**

## Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **5 %**
- Size with trub loss **27.3 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **32.9 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **21.3 liter(s)**
- Total mash volume **28.4 liter(s)**

## Steps

- Temp **67 C**, Time **60 min**

## Mash step by step

- Heat up **21.3 liter(s)** of strike water to **74.8C**
- Add grains
- Keep mash **60 min** at **67C**
- Sparge using **18.7 liter(s)** of **76C** water or to achieve **32.9 liter(s)** of wort

## Fermentables

| Type  | Name                            | Amount        | Yield | EBC  |
|-------|---------------------------------|---------------|-------|------|
| Grain | Thomas Fawcett - Golden Promise | 5 kg (70.4%)  | 81 %  | 6    |
| Grain | Płatki jęczmienne               | 1 kg (14.1%)  | 60 %  | 4    |
| Grain | Strzegom Czekoladowy jasny      | 0.5 kg (7%)   | 1 %   | 400  |
| Grain | czekoladowy bestmalz            | 0.1 kg (1.4%) | 1 %   | 1000 |
| Grain | Jęczmień palony                 | 0.5 kg (7%)   | 1 %   | 1200 |

## Hops

| Use for | Name               | Amount | Time   | Alpha acid |
|---------|--------------------|--------|--------|------------|
| Boil    | East Kent Goldings | 25 g   | 60 min | 6.3 %      |
| Boil    | Fuggles            | 25 g   | 20 min | 4.5 %      |
| Boil    | Fuggles            | 25 g   | 10 min | 4.5 %      |

## Yeasts

| Name        | Type | Form | Amount | Laboratory |
|-------------|------|------|--------|------------|
| Safale S-04 | Ale  | Dry  | 11 g   | Fermentis  |

## Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|        |                 |      |           |           |
|--------|-----------------|------|-----------|-----------|
| Flavor | kostki bourboun | 50 g | Secondary | 10 day(s) |
|--------|-----------------|------|-----------|-----------|