

# HIGH STIFFNESS SABIC® PP 5212P POLYMER FOR BOPP FILM WRAP AROUND LABELS

## INDUSTRY CHALLENGES

- Down gauging and easy to recycle packaging to meet circular economy goals
- Increasing performance of film, including stiffness toughness balance, barrier properties and hot fill requirements
- Meet food compliance standards and high product purity and safety requirements

## SABIC VALUE PROPOSITION

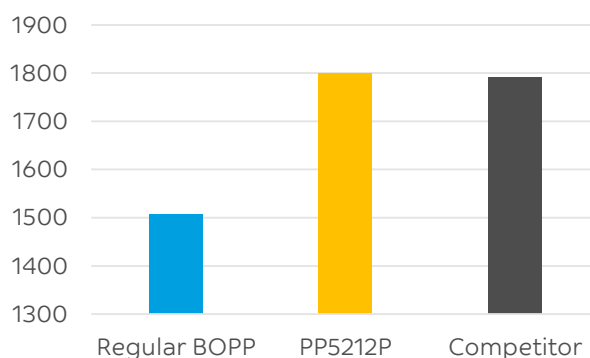
Newly developed SABIC® PP 5212P grade is a high crystallinity, high stiffness BOPP film grade for label applications and film laminations:

- Typically offers about 20% higher stiffness compared to conventional BOPP polymer grade and possibility to down gauge the film up to 15%
- Higher Heat Deflection Temperature (HDT) by about 13°C, beneficial for hot fill and metallization processes
- About 15% lower water vapor transmission rate (WVTR) and about 40% lower oxygen transmission rate (OTR) compared to standard BOPP grade
- About 10°C higher crystallization temperature (Tc) aims to support faster processing



## STIFFNESS COMPARISON

Flexural Modulus, Mpa



## KEY CHARACTERISTIC

- Broad molecular weight distribution
- Optimum melt flow index (MFI) and % xylene soluble
- Optimum additive package to prevent discoloration
- Phthalate free catalyst

## TYPICAL BENEFITS

- Easy processability, reduced film breaks at high speed production up to 525m/min
- High stiffness and barrier properties Tc and HDT
- Reduced migration and superior organoleptic properties compared to conventional BOPP film grade, good for metallization
- Complying with stringent regulatory requirements

## GRADE

## MFI

## TYPE

## APPLICATION

PP 5212P

3

Homo PP

Core layer in co-extrusion BOPP and as a base material for plain BOPP film for label and lamination film

# CONTACT DETAILS

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