



SABIC[®] PP 621P

PP RANDOM COPOLYMER

DESCRIPTION

SABIC[®] PP 621P is a newly designed random copolymer polypropylene particularly for cast film applications with high clarity. Products produced out of SABIC[®] PP 621P have a high clarity, excellent sealing performance and high puncture resistance. The molecular structure of this grade is tailored for high performance processing. SABIC[®] PP 621P does not contain anti-block and slip agent. A grade with anti-block and slip agent is available as SABIC[®] PP 622L.

Applications: SABIC PP 621P is typically used in applications like food packaging, lamination film, stationary film, textile packaging, flower packaging, and hygiene packaging. SABIC[®] PP 621P is also a partner resin of LLDPE for power stretch film to which high holding force is required in order to assure good pallet stability.

Specific applications are: sparkling beverage, building & construction materials and in general unitized heavy goods.

TYPICAL PROPERTY VALUES

| PROPERTIES | TYPICAL VALUES | UNITS | TEST METHODS |
|---|--------------------------|-------------------|--------------|
| POLYMER PROPERTIES | | | |
| Melt Flow Rate | | | |
| at 230 °C and 2.16 kg | 8.0 | dg/min | ISO 1133 |
| Density | 905 | kg/m ³ | ASTM D1505 |
| Molecular Weight Distribution | Narrow | - | - |
| FORMULATION | | | |
| Anti block agent | <input type="checkbox"/> | - | - |
| Slip agent | <input type="checkbox"/> | - | - |
| MECHANICAL PROPERTIES | | | |
| Tensile test | | | |
| strain at yield ⁽¹⁾ | 13 | % | ISO 527-2 1A |
| tensile modulus ⁽²⁾ | 800 | MPa | ISO 527-2 1A |
| stress at yield | 25 | MPa | ISO 527-2 1A |
| THERMAL PROPERTIES | | | |
| Vicat Softening Temperature ⁽³⁾ | | | |
| at 50 N (VST/B) | 63 | °C | ISO 306 |
| at 10 N (VST/A) | 128 | °C | ISO 306 |

(1) Speed of testing: 50 mm/min

(2) Speed of testing: 1 mm/min

(3) Temperature rate: 120°C/h