

# YUNGSOX® PP 1009

Polypropylene Homopolymer

Formosa Polypropylene

Message:

YUNGSOX® PP 1009 is a Polypropylene Homopolymer (PP Homopolymer) material. It is available in Asia Pacific.

Important attributes of YUNGSOX® PP 1009 are:

High Strength

Homopolymer

Typical applications include:

Food Contact Applications

Sheet

Straps/Ropes

| General Information                               |                           |                   |                 |
|---------------------------------------------------|---------------------------|-------------------|-----------------|
| Features                                          | High Tensile Strength     |                   |                 |
|                                                   | Homopolymer               |                   |                 |
| Uses                                              | Blow Molding Applications |                   |                 |
|                                                   | Sheet                     |                   |                 |
|                                                   | Strapping                 |                   |                 |
| Agency Ratings                                    | FDA 21 CFR 177.1520       |                   |                 |
| Forms                                             | Pellets                   |                   |                 |
| Physical                                          | Nominal Value             | Unit              | Test Method     |
| Density                                           | 0.900                     | g/cm <sup>3</sup> | ISO 1183        |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)         | 0.90                      | g/10 min          | ISO 1133        |
| Molding Shrinkage                                 | 1.3 to 1.7                | %                 | Internal Method |
| Hardness                                          | Nominal Value             | Unit              | Test Method     |
| Rockwell Hardness (R-Scale)                       | 105                       |                   | ISO 2039-2      |
| Mechanical                                        | Nominal Value             | Unit              | Test Method     |
| Tensile Stress (Yield)                            | 34.3                      | MPa               | ISO 527-2       |
| Tensile Strain (Break)                            | 300                       | %                 | ISO 527-2       |
| Flexural Modulus                                  | 1320                      | MPa               | ISO 178         |
| Impact                                            | Nominal Value             | Unit              | Test Method     |
| Notched Izod Impact (23°C)                        | 78                        | J/m               | ISO 180         |
| Thermal                                           | Nominal Value             | Unit              | Test Method     |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 115                       | °C                | ISO 75-2/A      |
| Vicat Softening Temperature                       | 152                       | °C                | ISO 306         |

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