

## Data Sheet Advanced-PP 1104 K

### Description

Advanced-PP 1104 K is a propylene homopolymer with medium molecular weight distribution (MWD) and narrow MFR range. Main application is OPP core layers and high performance weaving tapes eg for carpet backing. The product is free from metal stearates and functional additives like slip agents and is therefore in particular suitable for metallisable BOPP film and provides low water-carry over.

### Application

OPP films ( stenter frame process), weaving tapes.

### Regulatory Information:

The Grade Advanced-PP 1104K and additives incorporated comply with United States FDA Regulation 21CFR 177.1520 Olefin Polymers and European Regulation (EU) 10/2011 (and its amendments). Specific information is available upon request.

### Properties ( Typical values)

| Properties                                    | Unit                | Test method | Value |
|---|---------------------|-------------|-------|
| <b>Melt Flow Rate</b>                         |                     |             |       |
| Melt flow rate (230°C / 2.16 KG)              | g / 10 min          | ISO 1133    | 3.2   |
| <b>Mechanical Properties</b>                  |                     |             |       |
| Tensile modulus of elasticity (v= 1 mm/min)   | MPa                 | ISO 527-2   | 1450  |
| Tensile stress at yield (v= 50 mm/min)        | MPa                 | ISO 527-2   | 34    |
| Tensile strain at yield (v= 50 mm/min)        | %                   | ISO 527-2   | 9     |
| Tensile strain at break (v= 50 mm/min)        | %                   | ISO 527-2   | >50   |
| Charpy impact strength unnotched (+23°C)      | kJ/m <sup>2</sup>   | ISO 179/1eU | 190   |
| Charpy impact strength notched (+23°C)        | kJ/m <sup>2</sup>   | ISO 179/1eA | 4.0   |
| Ball indentation hardness ( H 358/30)         | MPa                 | ISO 2039-1  | 74    |
| <b>Thermal Properties</b>                     |                     |             |       |
| Melting point, DSC                            | °C                  | ISO 3146    | 163   |
| Heat deflection temperature- HDT/B (0.45 Mpa) | °C                  | ISO 75-2    | 85    |
| Vicat softening temperature- VST/A50 (10 N)   | °C                  | ISO 306     | 154   |
| <b>Other Properties</b>                       |                     |             |       |
| Density                                       | g / cm <sup>3</sup> | ISO 1183    | 0.91  |

Values given here are typical and should not be interpreted as specification. In a view of many factors that may affects processing and application, these data do not relieve the receiver this information from the responsibility of carry out their own test and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for specific purpose of the product made with or on the basis of the information in this publication.

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