



Advanced Polypropylene Company

Data Sheet* APPC 1102 K

Description

APPC 1102K is a propylene homopolymer for extrusion and thermoforming applications. Extremely low water carry-over is a special advantage for the production of tapes.

Application

Thermoformed parts, Tape yarns, monofilament, strapping.

Properties (Typical values)

| Properties | Unit | Test method | Value |
|--|---------------------|-------------|-------|
| Melt Flow Rate | | | |
| Melt flow rate (230°C / 2.16 KG) | g / 10 min | ISO 1133 | 3.4 |
| Mechanical Properties | | | |
| Tensile modulus of elasticity (v= 1 mm/min) | MPa | ISO 527-2 | 1500 |
| Tensile yield at stress (v= 50 mm/min) | MPa | ISO 527-2 | 34 |
| Tensile yield at strain (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 ² | ISO 179/1eU | 190 |
| Charpy impact strength notched (+23°C) | kJ/m ² | ISO 179/1eA | 4.0 |
| Ball indentation hardness (H 358/30) | MPa | ISO 2039-1 | 74 |
| Thermal Properties | | | |
| 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 |
| Other Properties | | | |
| Density | g / cm ³ | ISO 1183 | 0.91 |

* Provisional

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 to 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.