



# PETROLENE® 1102K

## DESCRIPTION

PETROLENE® 1102K is a polypropylene (PP) homopolymer recommended for tape yarn, monofilaments and thermoforming applications.

It complies with US FDA 21 CFR 177.1520 for food contact, EU Directive 2006/1907/EC REACH Regulation and EU Directive 2002/95/EC RoHS Regulation.

## APPLICATION

- Woven bags/sacks
- Twines
- Ropes
- Thermoformed articles

## PACKAGING

- 25-kg PP woven sack

## TYPICAL CHARACTERISTICS

	Unit	Test Method	Value
<u>Melt Flow Properties</u>			
MFR 230/2.16	g/10min	ISO 1133	3.4
<u>Mechanical Properties</u>			
Tensile Modulus of Elasticity (v=1mm/min)	MPa	ISO 527-2	1500
Tensile Yield Stress (v=50mm/min)	MPa	ISO-527-2	33
Tensile Yield Strain (v=50mm/min)	%	ISO 527-2	10
Tensile Strain at Break (v=50 mm/min)	%	ISO 527-2	> 50
<u>Thermal Properties</u>			
Melting Point, DSC	°C	ISO 3146	161
Heat Deflection Temperature, HDT/A (1.8MPa)	°C	ISO 75-2	55
Vicat Softening Temperature, VST/A50 (10N)	°C	ISO 306	154
Vicat Softening Temperature, VST/B50 (50N)	°C	ISO 306	90
<u>Other Properties</u>			
Density	g/cc	ISO 1183	0.91

The values presented above are typical values based on a limited number of tests, not to be construed as specifications and may vary within moderate ranges. Due to the many factors that may affect processing and application, these data do not relieve the user of this product from the responsibility of carrying out own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose of the products made with or on the basis of the above information.