



Advanced Polypropylene Company

## Data Sheet\* APPC 1101 N

### Description

APPC 1101 N is a propylene homopolymer grade for the production of fine denier staple fibres & continues filament with phenol free antigasfading stablization & inherent UV stability.

### Application

Staple fibres, BCF / CF

### Regulatory Information:

The Grade APPC1101N and additives incorporated comply with United States FDA Regulation 21CFR 177.1520 Olefin Polymers and European Council Directive 2002 / 72 /EC. Specific information is available upon request.

### Properties ( Typical values)

Properties	Unit	Test method	Value
<b><u>Melt Flow Rate</u></b>			
Melt flow rate (230°C / 2.16 KG)	g / 10 min	ISO 1133	12.0
<b><u>Mechanical Properties</u></b>			
Tensile modulus of elasticity (v= 1 mm/min)	MPa	ISO 527-2	1550
Tensile yield at stress (v= 50 mm/min)	MPa	ISO 527-2	35
Tensile yield at strain (v= 50 mm/min)	%	ISO 527-2	8
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	110
Charpy impact strength notched (+23°C)	kJ/m <sup>2</sup>	ISO 179/1eA	3.0
Ball indentation hardness ( H 358/30 )	MPa	ISO 2039-1	78
<b><u>Thermal Properties</u></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><u>Other Properties</u></b>			
Density	g / cm <sup>3</sup>	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.