

## Data Sheet Advanced-PP 1101 S

### Description

Advanced-PP 1101 S is a polypropylene homopolymer fibre grade characterized by high flowability, medium molecular weight distribution. Advanced-PP 1101 S is particularly suitable for the production of continuous filaments (CF) and bulked continuous filaments (BCF) with phenol free anti gas fading stabilization & inherent UV stability.

### Application

CF/BCF

### Regulatory Information:

The Grade Advanced-PP 1101S 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	24.0
<b>Mechanical Properties</b>			
Tensile modulus of elasticity (v= 1 mm/min)	MPa	ISO 527-2	1500
Tensile stress at yield (v= 50 mm/min)	MPa	ISO 527-2	35
Tensile strain at yield (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	2.5
Ball indentation hardness ( H 358/30)	MPa	ISO 2039-1	78
<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 affect processing and application, these data do not relieve the receiver of this information from the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for specific purposes of the product made with or on the basis of the information in this publication.

Mar'20

Advanced Petrochemical Company  
Saudi Joint Stock Company

Headquarters - Damman P.O. Box 7215 Damman 31462 Saudi Arabia  
Jubail P.O. Box 11022 Jubail 31961 Saudi Arabia  
Tel: +966 13 359 1000 Fax: +966 13 356 6065 C.R. 2055008094  
Paid up capital: S.R. 1,967,940,000.00

الشركة المتقدمة للبتروكيماويات  
شركة مساهمة سعودية

المركز الرئيسي - الدمام ص.ب. ٧٢١٥ - الدمام ٣١٤٦٢ المملكة العربية السعودية  
الجبيل ص.ب. ١١٠٢٢ - الجبيل ٣١٩٦١ المملكة العربية السعودية  
هاتف: +٩٦٦ ١٣ ٣٥٩ ١٠٠٠ فاكس: +٩٦٦ ١٣ ٣٥٦ ٦٠٦٠ س.ت. ٢٠٥٥٠٨٠٩٤  
رأس المال المدفوع: ١,٩٦٧,٩٤٠,٠٠٠