

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
Melt Flow Rate			
Melt flow rate (230°C / 2.16 KG)	g / 10 min	ISO 1133	24.0
Mechanical Properties			
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 ²	ISO 179/1eU	110
Charpy impact strength notched (+23°C)	kJ/m ²	ISO 179/1eA	2.5
Ball indentation hardness (H 358/30)	MPa	ISO 2039-1	78
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.

Mar'14

Advanced Petrochemical Company
Saudi Joint Stok Company

Headquarters - Dammam P.O. Box 7215 Dammam 31462 Saudi Arabia
Tel: +966 3 809860 Fax: +966 3 8098750 C.R. 2050049604

Manufacturing Plant Site - Jubail P.O. Box 11022 Jubail 31961 Saudi Arabia
Tel: +966 3 3591000 Fax: +966 3 356065 C.R. 2055008094
Paid up capital: S.R. 1,639,950,000,00

الشركة المتقدمة للبتروكيماويات
شركة مساهمة سعودية

المركز الرئيسي - الدمام ص.ب. 7215 - الدمام 31462 المملكة العربية السعودية
هاتف: +9663809860 فاكس: +96638098750 ب.ت. 2050049604

إدارة المصنع - الجبيل ص.ب. 11022 - الجبيل 31961 المملكة العربية السعودية
هاتف: +96633591000 فاكس: +9663356065 ب.ت. 2055008094
رأس المال المدفوع: 1,639,950,000,000