

Data Sheet Advanced-PP 1101P

Description

Advanced-PP 1101P is a polypropylene homopolymer fibre grade characterized by medium flowability, medium molecular weight distribution and medium crystallinity providing excellent and consistent process and product behavior. Advanced-PP 1101P is particularly suitable for the production of staple fibre, bulked continuous filaments (BCF), continuous filaments (CF). The product is comprised of an advanced pheno free stabilizer package providing superior gasfading resistance and inherent basic UV-stability.

Application

BCF / CF of higher dtex and relatively lower line speed than standard BCF grades.

Regulatory Information:

The Grade Advanced-PP 1101P 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	18.0
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	35
Tensile yield at strain (v= 50 mm/min)	%	ISO 527-2	10
Tensile strain at break (v= 50 mm/min)	%	ISO 527-2	>50
Charpy impact strength unnotched (+23°C)	kJ/m ²	ISO 179/1eU	120
Charpy impact strength notched (+23°C)	kJ/m ²	ISO 179/1eA	2.5
Ball indentation hardness (H 358/30)	MPa	ISO 2039-1	70
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

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.

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