

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

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.

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