



Advanced Polypropylene Company

Data Sheet* APPC 1101 R

Description

APPC 1101 R is a propylene homopolymer for the production of bulk continues filament (BCF) & non wovens (NWS) with resistance to gas fading.

Application

BCF / CF, Non wovens

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 yield at stress (v= 50 mm/min)	MPa	ISO 527-2	34
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 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.