



Producer: Advanced Petrochemical Company (APC) / Saudi Arabia

PP 1101R

Description:

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

Applications:

BCF / CF, non wovens

Regulatory Information:

The Grade Advanced - PP 1101R and additives incorporated comply with United States FDA Regulation 21CFR 177.1520 Olefin Polymers and European Regulation (EU) 10/2011. Specific information is available upon request.

PROPERTIES	UNIT	TEST METHOD	VALUE
<u>Melt Flow Rate</u>			
Melt flow rate (230°C / 2.16 KG)	g/10 min	ISO 1133	24.0
<u>Mechanical Propertiesa</u>			
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	34
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 179/1eU	2.5
Ball indentation hardness (H 358/30)	MPa	ISO 2039-1	78
<u>Thermal Properties</u>			
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
<u>Other Properties</u>			
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.