

Advanced-PP 1101SC

Polypropylene Homopolymer
Advanced Petrochemical Company

Message:

Advanced-PP 1101 SC is a polypropylene homopolymer fibre grade characterized by very high flowability, very narrow molecular weight distribution and medium crystallinity providing excellent and consistent process and product behaviour. Advanced-PP 1101 SC is especially suitable for the production fine titer spunbond nonwovens at high speed production lines used for hygiene application. The product comprises an Advanced-PP phenol free stabiliser package providing high gasfading resistance and inherent basic UV-stability.

Application
Non wovens spun bonded.

Regulatory Information:
The Grade Advanced-PP 1101SC 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.

General Information			
Additive	Unspecified Stabilizer		
Features	Gas-fading Resistant		
	Good UV Resistance		
	High Flow		
	Homopolymer		
	Narrow Molecular Weight Distribution		
	Semi Crystalline		
Uses	Nonwovens		
	Sanitary Products		
	Spun Bonding		
	Spunbond Nonwovens		
Agency Ratings	EU 10/2011		
	FDA 21 CFR 177.1520		
Processing Method	Spunbond Nonwovens		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	70.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1450	MPa	ISO 527-2/1
Tensile Stress (Yield)	34.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	8.0	%	

Break	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	2.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	100	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B
Vicat Softening Temperature	154	°C	ISO 306/A50
Melting Temperature (DSC)	163	°C	ISO 3146

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