

Data Sheet Advanced-PP 1104 K

Description

Advanced-PP 1104 K is a polypropylene homopolymer with medium molecular weight distribution (MWD) and narrow MFR range. Main application is OPP core layers and high performance weaving tapes eg for carpet backing. The product is free from metal stearates and functional additives like slip agents and is therefore in particular suitable for metallisable BOPP film and provides low water-carry over.

Application

OPP films (stenter frame process), weaving tapes.

Regulatory Information:

The Grade Advanced-PP 1104K 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	3.2
Mechanical Properties			
Tensile modulus of elasticity (v= 1 mm/min)	MPa	ISO 527-2	1450
Tensile stress at yield (v= 50 mm/min)	MPa	ISO 527-2	34
Tensile strain at yield (v= 50 mm/min)	%	ISO 527-2	9
Tensile strain at break (v= 50 mm/min)	%	ISO 527-2	>50
Charpy impact strength unnotched (+23°C)	kJ/m ²	ISO 179/1eU	190
Charpy impact strength notched (+23°C)	kJ/m ²	ISO 179/1eA	4.0
Ball indentation hardness (H 358/30)	MPa	ISO 2039-1	74
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 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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