Technical Data Sheet

Advanced PP H512M / 1104K

Polypropylene Homopolymer

Product Description

Advanced PP H512M is a polypropylene homopolymer with a broad molecular weight distribution (MWD) for balanced processability and consistent product properties. This grade is designed with narrow Melt Flow Rate (MFR) range, ensuring exceptional control during film formation. The primary application for Advanced PP H512M lies in oriented polypropylene (OPP) core layers, where its dimensional stability and reliable performance are crucial. The formulation of Advanced PP H512M deliberately excludes metal stearates and functional additives like slip agents. This meticulous selection of ingredients minimizes potential negative interactions during metallization, making Advanced PP H512M the ideal choice for metallizable BOPP film production. Additionally, the absence of these additives contributes to H512M's inherently low water-carry over properties, promoting efficient film processing and consistent product quality.

General

Typical Application

- Metallized BOPP Films
- BOPP Core layers
- Raffia Tapes

Product Features

- Narrow MFR Range
- Metallizable Formulation
- Low Water Carry

Regulatory Status

- Compliance with Reach regulation
- Compliance with FDA regulation
- Compliance with European Union Regulation (EU) 10/2011

Type	Properties	Unit	Value	Test Method
Resin	Density	g / cm³	0.9	ISO 1183
	Melt Flow Rate (MFR)	g / 10 min	3.2	ISO 1133
Mechanical	Tensile Modulus	MPa	1450	ISO 527-2
	Tensile Stress at Yield	MPa	34	ISO 527-2
	Tensile Strain at Yield	%	9	ISO 527-2
	Tensile Strain at Break	%	>50	ISO 527-2
	Charpy Impact strength notched (+23°C)	KJ / m²	4	ISO 179/1eA
	Ball indentation hardness (H 358/30)	MPa	74	ISO 2039-1
Thermal	Vicat Softening Temperature (A/50, 10 N)	°C	154	ISO 306
	Heat Deflection Temperature B, (0.45 MPa)	°C	85	ISO 75-2

Note:

- Values presented in this technical data sheet are typical values obtained from product testing and should not be construed as product specifications or analytical certifications. These values are provided for reference only.
- It is recommended to dry the resin before use. Moisture condensation may arise under fluctuating temperatures and high humidity.
- Appropriate storage conditions must be observed. Resin must be protected from direct exposure to sunlight, temperatures above 40°C, and high humidity.

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