

Technical Data Sheet

CirculenRecover PP522H Natural



Polypropylene, Specialty Products

Product Description

CirculenRecover PP522H Natural is a clear circular homopolymer supplied in pellet form for the production of biaxially oriented polypropylene films (BOPP). The grade combines a high transparency and a stiffness similar to Moplen HP522H.

CirculenRecover PP522H Natural is available in natural color and contains pre-consumer waste. It contains antiblocking agent in the range of 100 to 400 ppm.

Sustainability

According with the requirements of Standard ISO 14021:2016, CirculenRecover PP522H Natural contains, in the development phase from 30% to 35% of recycled material that is based on Pre-Consumer Waste from material diverted from waste stream during the manufacturing process.

This product is not intended for highly regulated applications including food contact, potable water contact, medical and pharmaceutical applications.

Market	Flexible Packaging
Processing Method	BOPP; Cast Film; Double Bubble
Attribute	High Transparency; Medium Stiffness

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	2.0	g/10 min	ISO 1133-1
Density	0.900	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus	1450	N/mm ²	ISO 178
Tensile Stress at Break	23	N/mm ²	ISO 527-1, -2
Tensile Stress at Yield, (23 °C, 50 mm/min)	34	N/mm ²	ISO 527-1, -2
Tensile Strain at Break, (23 °C, 50 mm/min)	>500	%	ISO 527-1, -2
Tensile Strain at Yield, (23 °C, 50 mm/min)	12	%	ISO 527-1, -2
Hardness			
Shore Hardness, (Shore D)	71		ISO 868
Thermal			
Vicat Softening Temperature, (A50)	155	°C	ISO 306
Deflection Temperature Under Load, (0.45 MPa, Unannealed)	93	°C	ISO 75B-1, -2
Optical			
Haze	0.60	%	ASTM D1003
Additive			
Antiblock, Natural Silica	250	ppm	LYB Method