

## 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.*

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

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