



Low Density Polyethylene RPL 5A1 NL

RPL 5A1 NL is a Low Density Polyethylene resin containing 50% Post-Consumer recycled (PCR) LDPE. Its properties are comparable to virgin LDPE resins.

Applications:

Shrink film.

Process:

Blown film extrusion.

Control properties:

	Test methods	Units	Values
Melt flow rate (190° C/2.16 kg)	D1238	g/10 min	0.6
Density	D792	g/cm ³	0.921

Typical properties¹:

	Test Methods	Units	Values
Tensile strength at break, MD	D882	MPa	15
Tensile strength at break, TD	D882	MPa	17
Elongation at break, MD	D882	%	200
Elongation at break, TD	D882	%	591
Tensile modulus MD, (secant 1%)	D882	MPa	151
Tensile modulus TD, (secant 1%)	D882	MPa	177
Elmendorf tear strength, TD	D1922	gf	550
Dart drop impact	D1709	gf	93
Contraction, MD	-	%	82
Contraction, DT	-	%	18
Haze	-	%	22

¹ Film properties tested with a monolayer 50 µm thickness blown film, blow up ratio: 2.5, die gap: 1.8 mm. MD= Machine direction, TD= Transversal direction. The optimum processing conditions will vary according to the type of equipment used and cannot be considered as performance guarantee.



Final observations:

1. The information in this document is provided in good faith and reflects typical values obtained in our laboratories and should not be considered as absolute nor warranted. Only the properties and values mentioned on the Certificate of Quality are considered as product warranty.
2. In some applications, **Braskem Idesa** has developed resins well-tailored to meet specific requirements.
3. In case of doubts regarding our product use or for other applications, please contact our **Braskem Idesa** technical services serviciotecnico@braskem.com
4. For information about safety, handling, individual protection equipment, first aid and disposal, consult the Safety Data Sheet (SDS) or please contact our **Braskem Idesa** safety team product.safety@braskem.com
5. The values reported in this document may change without **Braskem Idesa** previous communication.
6. **Braskem Idesa** does not recommend the use of this product for the manufacture of packages, parts or any other product used for storage or contact with parenteral solution nor with the inside of the human body.
7. The content of this Product Data Sheet replaces the one issued previously.

Review date: september 2020