

## REPSOL RESISTEX® 1820FG

The grade REPSOL RESISTEX®1820FG is a metallocene ethylene-hexene copolymer with easy processability during transformation, which is especially intended for films with low thickness. This material offers outstanding impact and puncture resistance, as well as excellent optical and seal properties, hence ideal for high-demand blown film applications. As additives it contains processing aid, thermal stabilizers, anti-block (2500 ppm) and slip agent (1000 ppm).

### Applications

- Food packaging
- Seal layer in co-extrusions: low seal initiation temperature for FFS packaging
- Lamination
- Freezer films
- Agriculture applications: silage, mulching film and greenhouses

Recommended melt temperature range from 180 to 230°C. Processing conditions should be optimized for each production line.

PROPERTIES	VALUE	UNIT	TEST METHOD
<b>GENERAL</b>			
Melt Flow Rate (190°C, 2.16 kg)	2.0	g/10 min	ISO 1133
Density at 23°C	918	kg/m <sup>3</sup>	ISO 1183
<b>FILM<sup>(1)</sup></b>			
Dart Drop (F <sub>50</sub> )	>600	g	ISO 7765-1
Tear Resistance (Elmendorf) (MD/TD)	240/450	cN	ISO 6383-2
Tensile Stress at Break (MD/TD)	70/60	MPa	ISO 527-3
Tensile Stress at Yield (MD/TD)	12/10	MPa	ISO 527-3
Elongation at Break (MD/TD)	500/600	%	ISO 527-3
Gloss (60°)	130	-	ASTM D-2457
Haze	3	%	ASTM D-1003
<b>OTHER</b>			
Seal Initiation Temperature	100	°C	ISO 11357-3

(1) 25 µm thickness film, blow up ratio 2.5:1.

# Technical Data Sheet

## Chemicals



### Storage

The grade REPSOL RESISTEX®1820FG should be stored in a dry atmosphere, on a paved, drained and unflooded area, at temperatures under 50°C and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes or undesired migration of additives included in its formulation which may have a negative influence on the processability and properties of the transformed product.

### Disclaimer

This grade complies with the European regulations for materials for use in food contact. This grade is not intended to be used in medical, pharmaceutical, or healthcare applications, therefore Repsol does not authorize its use in them.

Repsol does not grant express or implicit guarantees that extend beyond the description contained herein. Nothing herein shall constitute any guarantee of merchantability or fitness for a particular purpose. Before using a product sold by Repsol, users must make their own independent determination that the product is safe, legal, and technically suitable for its intended use. Repsol does not assume any responsibility for the use of its materials together with other materials.

### Related documents

The following related documents are available on request, and represent various aspects on the usability and safety of the product:

- Safety data sheet
- Statement on compliance with food contact regulations

**Recommended consumption period:** 12 months from the raw material reception

July 2021

[2/2]