

REPSOL RESISTEX[®] 1810F

REPSOL RESISTEX[®] 1810F is a metallocene ethylene-hexene copolymer. This material offers easy processability into thin films with excellent mechanical and optical properties. Good sealing characteristics. It contains processing aid and thermal stabilizers.

Applications

- Heavy duty packaging
- Seal layer in co-extrusions
- Excellent gloss and clarity
- Industrial film: Stretch Hood, Stretch Film and Shrink Film
- Agriculture applications: silage, mulching film and greenhouses

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

PROPERTIES	VALUE	UNIT	TEST METHOD
GENERAL			
Melt Flow Rate (190°C, 2.16 kg)	1.0	g/10 min	ISO 1133
Density at 23°C	918	kg/m ³	ISO 1183
FILM⁽¹⁾			
Dart Drop (F ₅₀)	>700	g	ISO 7765-1
Tear Resistance (Elmendorf) (MD/TD)	320/540	cN	ISO 6383-2
Tensile Stress at Break (MD/TD)	70/60	MPa	ISO 527-3
Tensile Stress at Yield (MD/TD)	13/10	MPa	ISO 527-3
Elongation at Break (MD/TD)	450/600	%	ISO 527-3
Gloss (60°)	136	-	ASTM D-2457
Haze	4	%	ASTM D-1003
OTHER			
Seal Initiation Temperature	100	°C	ISO 11357-3

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

Storage

REPSOL RESISTEX® 1810F should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 50°C and protected from UV radiation. Storage under inappropriate conditions could initiate degradation processes which may have a negative influence on the processability and the 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

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