

ISPLEN® RC530S2E

DESCRIPTION

ISPLEN® RC530S2E belongs to a new range of highly transparent family specially designed to satisfy the more exigent market necessities. ISPLEN® RC530S2E is a medium-low melt flow rate propylene-ethylene random copolymer with excellent transparency, high gloss and excellent surface finish. It is formulated with additives according to the end use of the item in order to reinforce the thermal stability.

ISPLEN® RC530S2E can be easily coloured during the extrusion process using the right pigments, preferably in the form of concentrates with a higher melt flow rate than that of the base polymer.

TYPICAL APPLICATIONS

In extrusion and blow-moulding processes that require high transparency and gloss:

- Blow-moulding extrusion. Specially recommended for cosmetics due to its high ESCR.
- Sheet Extrusion.
- Thermoforming.

Recommended melt temperature range from 185 to 215°C. Processing conditions should be optimised for each production line.

PROPERTIES	VALUE*	UNIT	TEST METHOD
General			
Melt Flow Rate (230°C; 2.16 kg)	1.6	g/10 min	ISO 1133
Density at 23°C	902	kg/m ³	ISO 1183
Mechanical			
Tensile Strength at Yield	27	MPa	ISO 527-2
Elongation at Yield	12	%	ISO 527-2
Flexural modulus of elasticity	800	MPa	ISO 178
Izod Impact Strength, (23°C, notched)	22	kJ/m ²	ISO 180/1A
Other			
Melting Point	143	°C	ISO 11357-3
Vicat Softening Temperature (10 N)	130	°C	ISO 306
HDT 0,45 MPa	70	°C	ISO 75

* Typical values – Not to be considered as specification

ISPLEN® RC530S2E complies with the FDA regulations and the European Directives regarding materials intended for contact with foodstuffs. For further information, please contact our Technical Service and Development Laboratory or our Customer Care Service.

STORAGE

ISPLEN® RC530S2E should be stored in a dry atmosphere, on a paved, drained and not flooded area, at temperatures under 60°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.

November 2013