Technical Data Sheet

Clyrell RC213M

Polypropylene, Random Copolymer

Product Description

Clyrell RC213M is a high flow and highly modified polypropylene random copolymer. It contains anti-blocking additives. It does not contain Calcium Stearate.

Clyrell RC213M is typically used by customers for manufacturing of oriented and un-oriented films. Typical applications reported by customers are lamination, metallized films, packaging of foodstuffs. In addition, customers also reported that it is particularly suitable as sealing layer of twist film.

Customers have been reporting that films produced using *Clyrell* RC213M offer a good balance of properties such as high clarity, high gloss along with medium seal initiation temperature (SIT).

Regulatory Status

For regulatory compliance information, see *Clyrell* RC213M Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

Availability	Africa-Middle East; Asia-Pacific; Europe
Application	Barrier Film; Food Packaging Film; Specialty Film; Textile Packaging Film; Twist Wrap Film
Processing Method	BOPP; Cast Film
Attribute	Good Processability; High Clarity; High Gloss; Random Copolymer; Weldable

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate			
(230 °C/2.16 kg)	10.5	g/10 min	ASTM D1238
(230 °C/2.16 kg)	10.5	g/10 min	ISO 1133-1
Density	0.90	g/cm³	ASTM D792
Mechanical			
Flexural Modulus	1000	MPa	ISO 178
Tensile Stress at Break	30	MPa	ISO 527-1, -2
Tensile Stress at Yield	27	MPa	ISO 527-1, -2
Tensile Strain at Break	600	%	ISO 527-1, -2
Tensile Strain at Yield	11	%	ISO 527-1, -2
Film			
Seal Initiation Temperature	120	°C	LYB Method
Impact			
Charpy Impact Strength - Notched			
(23 °C)	6	kJ/m²	ISO 179-1/1eA
(0 °C)	2	kJ/m²	ISO 179
Thermal			
Vicat Softening Temperature, (A/50)	130	°C	ISO 306

Manufacturer website: https://www.hmcpolymers.com/

Heat Deflection Temperature B, (0.45 MPa, Unannealed)	68	°C	ISO 75B-1, -2
Optical			
Haze, (50 µm)	<1	%	ASTM D1003
Gloss, (45°, 50 µm)	90		ASTM D2457
Additive			
Antiblock	1600	ppm	LYB Method

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit http://www.lyb.com/.

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