

## 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, textile and packaging of foodstuffs. In addition, customers also reported that it is particularly suitable as a skin of multilayer twist film.

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

<b>Application</b>	Barrier Film; Food Packaging Film; Specialty Film; Textile Packaging Film; Twist Wrap Film
<b>Processing Method</b>	BOPP; Cast Film
<b>Attribute</b>	Good Processability; High Gloss; Random Copolymer; Unspecified Antiblocking

Typical Properties	Nominal Value	Units	Test Method
<b>Physical</b>			
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/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>			
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
<b>Impact</b>			
Charpy Impact Strength - Notched			
(23 °C)	6	kJ/m <sup>2</sup>	ISO 179-1/1eA
(0 °C)	2	kJ/m <sup>2</sup>	ISO 179
<b>Thermal</b>			
Vicat Softening Temperature, (A/50)	130	°C	ISO 306
Heat Deflection Temperature B, (0.45 MPa, Unannealed)	68	°C	ISO 75B-1, -2
<b>Optical</b>			
Haze, (50 µm)	<1	%	ASTM D1003
Gloss, (45°, 50 µm)	90		ASTM D2457