

Clyrell RC213M

Polypropylene, Specialty Products

Product Description

Clyrell RC213M is a alpha olefin modified polypropylene random copolymer especially designed for cast film technology. It offers an excellent clarity and gloss, a very low haze, a wide hot tack range and a low seal-initiation temperature of 120°C. It is designed for quality packaging applications, either as monolayer film or as welding layer in coextruded structures and is in particular suitable for printing and metallisation purpose.

 $\textit{Clyrell} \; \text{RC213M} \; \text{is easy processable on commercial cast film equipment and it contains antiblock}$ additives.

For regulatory information please refer to Clyrell RC213M Product Stewardship Bulletin (PSB).

Product Characteristics

Status Commercial: Active

Test Method used ISO ASTM

Availability Europe **Processing Methods** Cast Film

Unspecified Antiblocking , High Clarity, Random **Features**

Copolymer, High Gloss, Good Processability

Typical Customer Applications Barrier Film, Cast Film, Film, Food Packaging Film, Twist

Wrap Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.900	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	10	g/10 min
Mechanical			
Tensile Modulus (1 mm/min)	ISO 527-1, -2	1050	MPa
Tensile Stress at Yield (50 mm/min)	ISO 527-1, -2	27.0	MPa
Tensile Strain at Break (50 mm/min)	ISO 527-1, -2	600	%
Tensile Strain at Yield (50 mm/min)	ISO 527-1, -2	10	%
Impact			
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		3.40	kJ/m²
(-30 °C, Type 1, Edgewise, Notch A)		1.50	kJ/m²
Hardness			
Shore hardness (Shore D)	ISO 868	66	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	65.0	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	130	°C

Additional Properties

Typical film properties of laboratory casting line:

Gloss, ASTM D 2457, 50 μ m: 90 Haze, ASTM D 1003, 50 μ m: <1% Tensile Young modulus, ASTM D 882, 25 mm/min, 50 μ m: 660 MPa Stress at Yield, ASTM D 882, 500 mm/min, 50 μ m, 22 MPa Elongation at Yield, ASTM D 882, 500 mm/min, 50 μ m: 10% Stress at break, ASTM D 882, 500 mm/min, 50 µm, 35 MPa

Elongation at break, ASTM D 882, 500 mm/min, 50 μ m: 750%

Coefficient of friction, ASTM D 1894, Static: 1 Coefficient of friction, ASTM D 1894, Dynamic: 1

Notes

Typical properties; not to be construed as specifications.