

Clyrell RC213M

Polypropylene Random Copolymer

LyondellBasell Industries

Message:

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. Clyrell RC213M is easy processable on commercial cast film equipment. It contains antiblock additives.

Clyrell RC213M is suitable for food contact.

General Information			
Additive	Antiblock		
Features	Antiblocking		
	Food Contact Acceptable		
	Good Processability		
	High Clarity		
	High Gloss		
	Random Copolymer		
Uses	Cast Film		
	Film		
	Packaging		
Forms	Pellets		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	66		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1050	MPa	ISO 527-2/1
Tensile Stress (Yield)	27.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	10	%	
Break	600	%	
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic, Cast Film	1.0		
vs. Itself - Static, Cast Film	1.0		
Films	Nominal Value	Unit	Test Method
Secant Modulus - MD ¹ (50 μm, Cast Film)	660	MPa	ASTM D882

Tensile Strength - MD ²			ASTM D882
Yield, 50 µm, Cast Film	22.0	MPa	
Break, 50 µm, Cast Film	35.0	MPa	
Tensile Elongation - MD ³			ASTM D882
Yield, 50 µm, Cast Film	10	%	
Break, 50 µm, Cast Film	750	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.5	kJ/m ²	
23°C	3.4	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	65.0	°C	ISO 75-2/B
Vicat Softening Temperature	130	°C	ISO 306/A50
Optical	Nominal Value	Unit	Test Method
Gloss (50.0 µm, Cast Film)	90		ASTM D2457
Haze (50.0 µm, Cast Film)	< 1.0	%	ASTM D1003
NOTE			
1.	25 mm/min		
2.	500 mm/min		
3.	500 mm/min		

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