

Clyrell RC215M

Polypropylene Random Copolymer

LyondellBasell Industries

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Technical Data

Product Description

"Clyrell" RC215M 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. "Clyrell" RC215M is easy processable on commercial cast film equipment. It contains slip and antiblock additives.

"Clyrell" RC215M is suitable for food contact.

General

Material Status	• Commercial: Active		
Literature ¹	• Processing - Extrusion (English) • Processing - Injection Molding (English) • Processing - Mold Shrink (English) • Technical Datasheet - ASTM (English) • Technical Datasheet - ISO (English)		
Search for UL Yellow Card	• LyondellBasell Industries		
Availability	• Africa & Middle East	• Europe	
Additive	• Antiblock	• Slip	
Features	• Antiblocking • Food Contact Acceptable • High Clarity	• High Gloss • Low Temperature Heat Sealability • Random Copolymer	• Slip
Uses	• Cast Film	• Film	• Packaging
Forms	• Pellets		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10 g/10 min	10 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	152000 psi	1050 MPa	ISO 527-2/1
Tensile Stress (Yield)	3920 psi	27.0 MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	10 %	10 %	
Break	600 %	600 %	
Coefficient of Friction			ASTM D1894
vs. Itself - Dynamic, Cast Film	0.50	0.50	
vs. Itself - Static, Cast Film	0.50	0.50	
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Secant Modulus - MD ³ (2.0 mil (50 µm), Cast Film)	95700 psi	660 MPa	ASTM D882
Tensile Strength - MD ⁴			ASTM D882
Yield, 2.0 mil (50 µm), Cast Film	3190 psi	22.0 MPa	
Break, 2.0 mil (50 µm), Cast Film	5080 psi	35.0 MPa	
Tensile Elongation - MD ⁴			ASTM D882
Break, 2.0 mil (50 µm), Cast Film	750 %	750 %	
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	0.71 ft·lb/in ²	1.5 kJ/m ²	
73°F (23°C)	1.6 ft·lb/in ²	3.4 kJ/m ²	
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Shore Hardness (Shore D)	66	66	ISO 868
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	149 °F	65.0 °C	



Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	266 °F	130 °C	ISO 306/A50
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (1.97 mil (50.0 µm), Cast Film)	90	90	ASTM D2457
Haze (1.97 mil (50.0 µm), Cast Film)	< 1.0 %	< 1.0 %	ASTM D1003

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ 0.98 in/min (25 mm/min)

⁴ 20 in/min (500 mm/min)



Where to Buy

Supplier

LyondellBasell Industries
Wilmington, DE USA
Telephone: 713-309-7200
Web: <http://polymers.lyondellbasell.com/portal/site/basell/>

Distributor

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Turkey, United Kingdom

