

Clyrell RC124H

Polypropylene Random Copolymer

LyondellBasell Industries

Message:

Clyrell RC124H is a high modified polypropylene random copolymer designed for extrusion applications. Clyrell RC124H exhibits enhanced optical properties. The main applications of Clyrell RC124H are blown film extrusion, sheet extrusion and thermoforming.

General Information			
Features	High Clarity		
	High Gloss		
	Opticals		
Uses	Bags		
	Film		
	Food Packaging		
	Packaging		
	Stationary Supplies		
Processing Method	Blown Film		
	Extrusion		
	Pipe Extrusion		
	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.2	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	750	MPa	ISO 527-2/1
Tensile Stress (Yield)	25.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	15	%	
Break	510	%	
Films	Nominal Value	Unit	Test Method
Secant Modulus			ASTM D882
MD	600	MPa	
MD : 40 µm, Blown Film ¹	840	MPa	
TD : 40 µm, Blown Film ²	860	MPa	
Tensile Strength			ASTM D882

MD : Yield	18.0	MPa	
MD : Yield,40 μm, Blown Film ³	27.0	MPa	
TD : Yield,40 μm, Blown Film ⁴	25.0	MPa	
MD : Break	40.0	MPa	
MD : Break, 40 μm,Blown Film ⁵	31.0	MPa	
TD : Break, 40 μm,Blown Film ⁶	27.0	MPa	
Tensile Elongation			ASTM D882
MD : Yield, 40 μm, Blown Film ⁷	9.0	%	
TD : Yield, 40 μm, Blown Film ⁸	8.0	%	
MD : Break	730	%	
MD : Break, 40 μm,Blown Film ⁹	590	%	
TD : Break, 40 μm,Blown Film ¹⁰	540	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	30	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	69.0	°C	ISO 75-2/B
Vicat Softening Temperature	122	°C	ISO 306/A50
Optical	Nominal Value	Unit	Test Method
Gloss			ASTM D2457
45°, 50.0 μm	91		
45°, 40.0 μm, Blown Film	93		
Haze			ASTM D1003
50.0 μm	< 1.0	%	
40.0 μm, Blown Film	1.0	%	
NOTE			
1.	25 mm/min		
2.	25 mm/min		
3.	500 mm/min		
4.	500 mm/min		
5.	500 mm/min		
6.	500 mm/min		
7.	500 mm/min		
8.	500 mm/min		
9.	500 mm/min		
10.	500 mm/min		

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