



Clyrell RC124H

Polypropylene, Specialty Products

Product Description

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.

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Availability	Europe, Africa-Middle East
Processing Methods	Blown Film, Extrusion Pipe Sheet and Semi Finished Products, Extrusion Thermoforming
Features	High Clarity, Random Copolymer, High Gloss , Good Optical Properties
Typical Customer Applications	Bags & Pouches, Blown Film, Film, Food Packaging Film, Stationery Film, Textile Packaging Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.900	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	2.2	g/10 min
Mechanical			
Tensile Modulus (1 mm/min)	ISO 527-1, -2	750	MPa
Tensile Stress at Yield (50 mm/min)	ISO 527-1, -2	25.0	MPa
Tensile Strain at Break (50 mm/min)	ISO 527-1, -2	510	%
Tensile Strain at Yield (50 mm/min)	ISO 527-1, -2	15	%
Impact			
Charpy notched impact strength (23 °C, Type 1, Edgewise, Notch A)	ISO 179	30	kJ/m ²
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	69	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	122	°C

Additional Properties

Typical film properties of laboratory blown film line:
Gloss, ASTM D 2457, 45°, 40 µm: 93
Haze, ASTM D 1003, 40 µm: 1%
Tensile Young modulus (MD/TD), ASTM D 882, 25 mm/min, 40 µm: 840/860 MPa
Stress at Yield (MD/TD), ASTM D 882, 500 mm/min, 40 µm, 27/25 MPa
Elongation at Yield (MD/TD), ASTM D 882, 500 mm/min, 40 µm: 9/8%
Stress at break (MD/TD), ASTM D 882, 500 mm/min, 40 µm, 31/27 MPa
Elongation at break (MD/TD), ASTM D 882, 500 mm/min, 40 µm: 590/540%

Notes

Typical properties; not to be construed as specifications.