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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/cm³
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/m²
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.