Clyrell RC215M

Polypropylene, Specialty Products

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.
For regulatory information please refer to "Moplen" RC215M Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Availability	Europe, Africa-Middle East
Processing Methods	Cast Film
Features	Unspecified Antiblocking , High Clarity, Random Copolymer, High Gloss , Unspecified Slip
Typical Customer Applications	Cast Film, Film, Food Packaging Film, Textile Packaging Film, Twist Wrap Film

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.9	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	10	g/10 min
Mechanical			
Tensile Modulus (1 mm/min)	ISO 527-1, -2	1050	MPa
Tensile Stress at Yield (50 mm/min)	ISO 527-1, -2	27	MPa
Tensile Strain at Break (50 in/min)	ISO 527-1, -2	600	%
Tensile Strain at Yield (50 mm/min)	ISO 527-1, -2	10	%
Impact			
Charpy notched impact strength	ISO 179		
(-30 °F, Type 1, Edgewise, Notch A)		1.5	kJ/m²
(23 °F, Type 1, Edgewise, Notch A)		3.4	kJ/m²
Hardness			
Shore hardness (Shore D)	ISO 868	66	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	65	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	130	°C

Additional Properties

Typical film properties of laboratory casting line:
Gloss, ASTM D 2457, 50 µm: 90
Haze, ASTM D 1003, 50 µm: <1%
Tensile Young modulus, ASTM D 882, 25 mm/min, 50 µm: 660 MPa
Stress at Yield, ASTM D 882, 500 mm/min, 50 µm, 22 MPa
Elongation at Yield, ASTM D 882, 500 mm/min, 50 µm: 10%
Stress at break, ASTM D 882, 500 mm/min, 50 µm, 35 MPa
Elongation at break, ASTM D 882, 500 mm/min, 50 µm: 750%
Coefficient of friction, ASTM D 1894, Static: 0.5
Coefficient of friction, ASTM D 1894, Dynamic: 0.5

Notes

Typical properties; not to be construed as specifications.