



Clyrell RC215M

Polypropylene, Specialty Products

Product Description

"Clyrell" RC215M is an 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

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|--------------------------------------|--|
| 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/cm ³ |
| 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/m ² |
| (23 °F, Type 1, Edgewise, Notch A) | | 3.4 | kJ/m ² |
| 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.