

Clyrell 7173 XCP

Polypropylene Random Copolymer

LyondellBasell Industries

Message:

Clyrell 7173 XCP is clear polypropylene random copolymer particularly suited for thermoforming/injection blow moulding and single or multi layer sheet extrusion. It offers an excellent clarity and gloss and these characteristics may be further enhanced through orientation processes (i.e. injection stretch blow moulding). The injection moulding applications of the Clyrell 7173 XCP include posts and cups for foodstuff, trays for biscuits and bakery products, caps and closures for cosmetic and toiletry applications. Extruded sheet made of the Clyrell 7173 XCP can be used in stationary folders and for thermoforming articles such as trays for fresh pasta, sweets or biscuits, fruit and vegetable containers and posts for dairy products.

| General Information | | | |
|---|------------------------|-------------------|-------------|
| Features | High Clarity | | |
| | High Gloss | | |
| | Random Copolymer | | |
| Uses | Caps | | |
| | Cast Film | | |
| | Closures | | |
| | Containers | | |
| | Cups | | |
| | Film | | |
| | Stationary Supplies | | |
| Appearance | Clear/Transparent | | |
| Forms | Pellets | | |
| Processing Method | Cast Film | | |
| | Injection Blow Molding | | |
| | 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) | 6.0 | g/10 min | ISO 1133 |
| Mechanical | Nominal Value | Unit | Test Method |
| Flexural Modulus ¹ (23°C) | 1450 | MPa | ISO 178 |
| Coefficient of Friction | 0.50 | | ASTM D1894 |
| Films | Nominal Value | Unit | Test Method |
| Secant Modulus - MD | 660 | MPa | ASTM D882 |
| Tensile Strength - MD | | | ASTM D882 |
| Yield | 22.0 | MPa | |
| Break | 35.0 | MPa | |


| Tensile Elongation - MD (Break) | 750 | % | ASTM D882 |
|---|---------------|------|-------------|
| Thermal | Nominal Value | Unit | Test Method |
| Heat Deflection Temperature (1.8 MPa, Unannealed) | 96.0 | °C | ISO 75-2/A |
| Vicat Softening Temperature | 143 | °C | ISO 306/B50 |
| Optical | Nominal Value | Unit | Test Method |
| Gloss (50.0 µm) | 90 | | ASTM D2457 |
| Haze (50.0 µm) | < 1.0 | % | ASTM D1003 |
| NOTE | | | |
| 1. | 1.0 mm/min | | |

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