



## Technical Datasheet RPX-345S

### Product Description:

RPX-345S is a polypropylene random copolymer with high fluidity and outstanding transparency and optical properties.

RPX-345S is the material of choice for applications where transparency and aesthetics are primary requirements. This grade is designed for injection molding and injection stretch blow molding (ISBM) applications. Thanks to its high fluidity, one can experience reduced cycle times and energy savings compared to conventional grades.

RPX-345S is suitable for the packaging of non-oxygen sensitive products; hence, it counts as an effective alternative for PVC and PET in ISBM.

### Applications:

Households

Toys, Bottle

Food Containers

Container

Caps and Closures

Thin-Wall Products

Sports Equipment

Syringe

Test Tube

Cosmetics Packaging

Medical Tubes

Medical-Sanitary Products

### Typical data:

| <b>Property</b>                                 | <b>Test method</b> | <b>Unit</b>      | <b>value</b> |
|---|--------------------|------------------|--------------|
| <b>Melt Flow Rate (230 °C, 2.16 kg)</b>         | ASTM D1238         | g/10 min         | 40           |
| <b>Density</b>                                  | ASTM D1505         | g/m <sup>3</sup> | 0.9          |
| <b>Flexural Modulus</b>                         | ASTM D790          | MPa              | 1100         |
| <b>Tensile Strength at Yield</b>                | ASTM D638          | MPa              | 28           |
| <b>Tensile Elongation at Yield</b>              | ASTM D638          | %                | 10           |
| <b>Izod Impact Strength (notched) at 23 °C</b>  | ASTM D256          | J/m              | 55           |
| <b>Vicat softening point (10N)</b>              | ASTM D1525         | °C               | 128          |
| <b>H.D.T. (0.46 MPa)</b>                        | ASTM D648          | °C               | 82           |
| <b>Accelerated oven ageing in air at 150 °C</b> | ASTM D3012         | hours            | 360          |
| <b>Haze (1 mm)</b>                              | ASTM D1003         | %                | 11           |
| <b>Gloss</b>                                    | ASTM D2457         | -                | 90           |