

### Technical Data Sheet



### Pro-fax RP491S

Polypropylene, Random Copolymer

#### Product Description

Pro-fax RP491S polypropylene random copolymer resin is available in pellet form. This resin is typically used in injection molding applications.

#### Regulatory Status

For regulatory compliance information, see Pro-fax RP491S [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

|                          |                                                      |
|--------------------------|------------------------------------------------------|
| <b>Status</b>            | Commercial: Active                                   |
| <b>Availability</b>      | North America                                        |
| <b>Application</b>       | Containers                                           |
| <b>Market</b>            | Rigid Packaging                                      |
| <b>Processing Method</b> | Injection Molding                                    |
| <b>Attribute</b>         | Contains Antistat; Good Impact Resistance; Nucleated |

| Typical Properties                    | Nominal Value | English Units     | Nominal Value | SI Units          | Test Method |
|---------------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| <b>Physical</b>                       |               |                   |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)      | 35            | g/10 min          | 35            | g/10 min          | ASTM D1238  |
| Density, (23 °C)                      | 0.90          | g/cm <sup>3</sup> | 0.90          | g/cm <sup>3</sup> | ASTM D792   |
| <b>Mechanical</b>                     |               |                   |               |                   |             |
| Flexural Modulus                      |               |                   |               |                   |             |
| (0.05 in/min, 1% Secant, Procedure A) | 135000        | psi               |               |                   | ASTM D790   |
| (1.3 mm/min, 1% Secant, Procedure A)  |               |                   | 930           | MPa               | ASTM D790   |
| Tensile Strength at Yield             |               |                   |               |                   |             |
| (2 in/min)                            | 3800          | psi               |               |                   | ASTM D638   |
| (50 mm/min)                           |               |                   | 26.2          | MPa               | ASTM D638   |
| Tensile Elongation at Yield           | 13            | %                 | 13            | %                 | ASTM D638   |
| <b>Impact</b>                         |               |                   |               |                   |             |
| Notched Izod Impact Strength          |               |                   |               |                   |             |
| (73 °F, Method A)                     | 1.1           | ft-lb/in          |               |                   | ASTM D256   |
| (23 °C, Method A)                     |               |                   | 59            | J/m               | ASTM D256   |
| <b>Thermal</b>                        |               |                   |               |                   |             |
| Deflection Temperature Under Load     |               |                   |               |                   |             |
| (66 psi, Unannealed)                  | 185           | °F                |               |                   | ASTM D648   |
| (0.45 MPa, Unannealed)                |               |                   | 85            | °C                | ASTM D648   |



### Notes

These are typical property values not to be construed as specification limits.

### Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

### Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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