# Technical Data Sheet

# *Pro-fax* RP448S

Polypropylene, Random Copolymer

## Product Description

*Pro-fax* RP448S high melt flow, clarified polypropylene random copolymer is available in pellet form. This resin is typically used in injection molding and injection-stretch blow molding applications and offers very good see-through and contact clarity.

## Regulatory Status

For regulatory compliance information, see *Pro-fax* RP448S Product Stewardship Bulletin (PSB) and Safety Data Sheet (SDS).

| | |
|---|---|
| **Status** | Commercial: Active |
| **Availability** | North America |
| **Application** | Clear Containers; Housewares; Sports, Leisure & Toys; TWIM Food Containers |
| **Market** | Consumer Products; Rigid Packaging |
| **Processing Method** | Injection Molding; Injection Stretch Blow Molding |
| **Attribute** | Contains Antistat; High Clarity |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|---|---|---|---|---|---|
| **Physical** | | | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 40 | g/10 min | 40 | g/10 min | ASTM D1238 |
| Density, (23 °C) | 0.90 | g/cm³ | 0.90 | g/cm³ | ASTM D792 |
| **Mechanical** | | | | | |
| Flexural Modulus | | | | | |
| (0.05 in/min, 1% Secant, Procedure A) | 145000 | psi | | | ASTM D790 |
| (1.3 mm/min, 1% Secant, Procedure A) | | | 1000 | MPa | ASTM D790 |
| Tensile Strength at Yield | | | | | |
| (2 in/min) | 4000 | psi | | | ASTM D638 |
| (50 mm/min) | | | 28 | MPa | ASTM D638 |
| Tensile Elongation at Yield | 12 | % | 12 | % | ASTM D638 |
| **Impact** | | | | | |
| Notched Izod Impact Strength | | | | | |
| (73 °F, Method A) | 0.8 | ft-lb/in | | | ASTM D256 |
| (23 °C, Method A) | | | 43 | J/m | ASTM D256 |
| Gardner Impact | | | | | |
| (73 °F, Geometry GC) | 150 | in-lbs | | | ASTM D5420 |
| (23 °C, Geometry GC) | | | 17 | J | ASTM D5420 |
| **Thermal** | | | | | |
| Deflection Temperature Under Load | | | | | |
| (66 psi, Unannealed) | 185 | °F | | | ASTM D648 |
| (0.45 MPa, Unannealed) | | | 83 | °C | ASTM D648 |
| **Optical** | | | | | |
| Haze, (45 mil) | 8 | % | 8 | % | ASTM D1003 |



Manufacturer website: https://www.lyondellbasell.com/en/

## 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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