

# Technical Data Sheet

## Pro-fax 7523



Polypropylene, Impact Copolymer

### Product Description

Pro-fax 7523 impact polypropylene copolymer is available in pellet form. This resin is typically used in injection molding applications and offers good cold temperature impact resistance.

ASTM and ISO-based versions of the technical data sheet are available for Pro-fax 7523.

### Regulatory Status

For regulatory compliance information, see Pro-fax 7523 [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

|                          |  |
|--------------------------|--|
| <b>Status</b>            | Commercial: Active   |
| <b>Availability</b>      | North America  |
| <b>Application</b>       | Automotive Parts; Containers; Specialty Film; Sports, Leisure & Toys |
| <b>Market</b>            | Automotive; Consumer Products; Rigid Packaging                       |
| <b>Processing Method</b> | Cast Film; Injection Molding; Sheet and Profile Extrusion            |
| <b>Attribute</b>         | Good Heat Aging Resistance   |

| Typical Properties                    | Nominal Value | English Units     | Nominal Value | SI Units          | Test Method |
|---------------------------------------|---------------|-------------------|---------------|-------------------|-------------|
| <b>Physical</b>                       |               |                   |               |                   |             |
| Melt Flow Rate, (230 °C/2.16 kg)      | 4.0           | g/10 min          | 4.0           | 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) | 180000        | psi               |               |                   | ASTM D790   |
| (1.3 mm/min, 1% Secant, Procedure A)  |               |                   | 1240          | MPa               | ASTM D790   |
| Tensile Strength at Yield             |               |                   |               |                   |             |
| (2 in/min)                            | 4100          | psi               |               |                   | ASTM D638   |
| (50 mm/min)                           |               |                   | 28            | MPa               | ASTM D638   |
| Tensile Elongation at Yield           | 9             | %                 | 9             | %                 | ASTM D638   |
| <b>Impact</b>                         |               |                   |               |                   |             |
| Notched Izod Impact Strength          |               |                   |               |                   |             |
| (73 °F, Method A)                     | 1.6           | ft-lb/in          |               |                   | ASTM D256   |
| (23 °C, Method A)                     |               |                   | 85            | J/m               | ASTM D256   |
| <b>Thermal</b>                        |               |                   |               |                   |             |
| Deflection Temperature Under Load     |               |                   |               |                   |             |
| (66 psi, Unannealed)                  | 180           | °F                |               |                   | ASTM D648   |
| (0.45 MPa, Unannealed)                |               |                   | 82            | °C                | ASTM D648   |

## Notes

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

### Automotive Specifications

- ▶ FCA MS-DB500 CPN 4168
- ▶ FCA MS-DB500 CPN 4467
- ▶ Ford ESB-M4D175-A
- ▶ GM GMP.PP.001

### 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/>.

© LyondellBasell Industries Holdings, B.V. 2018

### Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

### Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.