

### 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/cm³         | 0.90          | g/cm³    | ASTM D792   |
| <b>Mechanical</b>                        |               |               |               |          |             |
| <b>Flexural Modulus</b>                  |               |               |               |          |             |
| (0.05 in/min, 1% Secant, Procedure A)    | 180000        | psi           |               |          | ASTM D790   |
| (1.3 mm/min, 1% Secant, Procedure A)     |               |               | 1240          | MPa      | ASTM D790   |
| <b>Tensile Strength at Yield</b>         |               |               |               |          |             |
| (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>                            |               |               |               |          |             |
| <b>Notched Izod Impact Strength</b>      |               |               |               |          |             |
| (73 °F, Method A)                        | 1.6           | ft-lb/in      |               |          | ASTM D256   |
| (23 °C, Method A)                        |               |               | 85            | J/m      | ASTM D256   |
| <b>Thermal</b>                           |               |               |               |          |             |
| <b>Deflection Temperature Under Load</b> |               |               |               |          |             |
| (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 GMW17257

### 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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