

### Technical Data Sheet



#### *Pro-fax* SB786

Polypropylene, Impact Copolymer

#### Product Description

*Pro-fax* SB786 impact polypropylene copolymer is available in pellet form. This resin is typically used in injection molding applications and offers good cold temperature impact and blush resistance.

ASTM and ISO-based versions of the technical data sheet are available for *Pro-fax* SB786.

#### Regulatory Status

For regulatory compliance information, see *Pro-fax* SB786 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| <b>Status</b>            | Commercial: Active                                                 |
| <b>Availability</b>      | North America                                                      |
| <b>Application</b>       | Battery Cases                                                      |
| <b>Market</b>            | Automotive; Industrial Packaging                                   |
| <b>Processing Method</b> | Injection Molding                                                  |
| <b>Attribute</b>         | Blush Resistant; Good Stiffness; Low Temperature Impact Resistance |

| Typical Properties                    | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|---------------------------------------|---------------|---------------|---------------|----------|-------------|
| Physical                              |               |               |               |          |             |
| Melt Flow Rate, (230 °C/2.16 kg)      | 8.0           | g/10 min      | 8.0           | 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) | 160000        | psi           | 1100          | MPa      | ASTM D790   |
| (1.3 mm/min, 1% Secant, Procedure A)  |               |               |               |          | ASTM D790   |
| Tensile Strength at Yield             |               |               |               |          |             |
| (2 in/min)                            | 3700          | psi           | 26            | MPa      | ASTM D638   |
| (50 mm/min)                           |               |               |               |          | ASTM D638   |
| Tensile Elongation at Yield           | 8             | %             | 8             | %        | ASTM D638   |
| Impact                                |               |               |               |          |             |
| Notched Izod Impact Strength          |               |               |               |          |             |
| (73 °F, Method A)                     | 1.6           | ft-lb/in      | 85            | J/m      | ASTM D256   |
| (23 °C, Method A)                     |               |               |               |          | ASTM D256   |
| Thermal                               |               |               |               |          |             |
| Deflection Temperature Under Load     |               |               |               |          |             |
| (66 psi, Unannealed)                  | 175           | °F            | 79            | °C       | ASTM D648   |
| (0.45 MPa, Unannealed)                |               |               |               |          | 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
- ▶ Ford WSB-M4D638-A

### 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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