

## Technical Data Sheet

### *Pro-fax* SG899



Polypropylene, Impact Copolymer

#### Product Description

*Pro-fax* SG899 high impact polypropylene copolymer is available in pellet form. This resin is typically used in injection molding applications and offers excellent cold temperature impact resistance.

ASTM and ISO-based versions of the technical data sheet are available for *Pro-fax* SG899.

#### Regulatory Status

For regulatory compliance information, see *Pro-fax* SG899 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                          |                                                                                |
|--------------------------|--------------------------------------------------------------------------------|
| <b>Status</b>            | Commercial: Active                                                             |
| <b>Availability</b>      | North America                                                                  |
| <b>Application</b>       | Interior Automotive Applications                                               |
| <b>Market</b>            | Automotive                                                                     |
| <b>Processing Method</b> | Compounding; Injection Molding                                                 |
| <b>Attribute</b>         | Good Colorability; Good Processability; Good Stiffness; High Impact Resistance |

| 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) | 155000        | psi               |               |                   | ASTM D790   |
| (1.3 mm/min, 1% Secant, Procedure A)  |               |                   | 1070          | MPa               | ASTM D790   |
| Tensile Strength at Yield             |               |                   |               |                   |             |
| (2 in/min)                            | 3100          | psi               |               |                   | ASTM D638   |
| (50 mm/min)                           |               |                   | 21            | MPa               | ASTM D638   |
| Tensile Elongation at Yield           | 5             | %                 | 5             | %                 | ASTM D638   |
| <b>Impact</b>                         |               |                   |               |                   |             |
| Notched Izod Impact Strength          |               |                   |               |                   |             |
| (73 °F, Method A)                     | 3.9           | ft-lb/in          |               |                   | ASTM D256   |
| (23 °C, Method A)                     |               |                   | 208           | J/m               | ASTM D256   |
| <b>Thermal</b>                        |               |                   |               |                   |             |
| Deflection Temperature Under Load     |               |                   |               |                   |             |
| (66 psi, Unannealed)                  | 210           | °F                |               |                   | ASTM D648   |
| (0.45 MPa, Unannealed)                |               |                   | 99            | °C                | ASTM D648   |

## Notes

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

### Automotive Specifications

- ▶ FCA MS-DB500 CPN 3560
- ▶ FCA MS-DB500 CPN 4382
- ▶ Ford WSB-M4D638-A
- ▶ GM GMP.PP.033
- ▶ GM GMW16208-T3

### 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.