Technical Data Sheet

# *Pro-fax* SG802N

Polypropylene, Impact Copolymer

## Product Description

*Pro-fax* SG802N high impact polypropylene copolymer is available in pellet form. This resin is typically used in injection molding applications and offers very good cold temperature impact resistance.

ASTM and ISO-based versions of the technical data sheet are available for *Pro-fax* SG802N.

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|---|---|
| **Status** | Commercial: Active |
| **Availability** | North America |
| **Application** | Interior Automotive Applications; TWIM Food Containers; Underhood |
| **Market** | Automotive; Rigid Packaging |
| **Processing Method** | Compounding; Injection Molding |
| **Attribute** | Low Temperature Impact Resistance; Nucleated |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|---|---|---|---|---|---|
| **Physical** | | | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 35 | g/10 min | 35 | 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 | | | ASTM D790 |
| (1.3 mm/min, 1% Secant, Procedure A) | | | 1100 | 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 |
| **Impact** | | | | | |
| Notched Izod Impact Strength | | | | | |
| (73 °F, Method A) | 2.6 | ft-lb/in | | | ASTM D256 |
| (23 °C, Method A) | | | 139 | J/m | ASTM D256 |
| **Thermal** | | | | | |
| 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 3562
- Ford WSB-M4D638-A
- Ford WSS-M4D638-B
- GM GMP.PP.002
- GM GMP.PP.006
- GM GMP.PP.033
- GM GMP.PP.096
- GM GMW16007
- GM GMW16008-T2
- GM GMW16208-T1
- Opel QK003761

### 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.