

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.

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/cm ³	0.90	g/cm ³	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.

