



## Technical Data Sheet

### *Pro-fax 7823*

Polypropylene, Impact Copolymer

#### Product Description

*Pro-fax 7823* fractional melt flow polypropylene copolymer is available in pellet form. This resin is typically used in extrusion applications and offers high melt strength and excellent impact resistance.

ASTM and ISO-based versions of the technical data sheet are available for *Pro-fax 7823*.

#### Regulatory Status

For regulatory compliance information, see *Pro-fax 7823* [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

<b>Status</b>	Commercial: Active
<b>Availability</b>	North America
<b>Application</b>	Automotive Parts; Food Packaging Film; Raffia/Tapes/Strapping; Specialty Film; Underhood
<b>Market</b>	Automotive; Compounding; Flexible Packaging; Textile
<b>Processing Method</b>	Blown Film; Compounding; Extrusion Blow Molding; Sheet and Profile Extrusion; Thermoforming
<b>Attribute</b>	Good Heat Aging Resistance; Good Impact Resistance; Good Melt Strength; Good Stiffness; Low Temperature 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)	0.45	g/10 min	0.45	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)	180000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			1240	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	4100	psi			ASTM D638
(50 mm/min)			28	MPa	ASTM D638
Tensile Elongation at Yield	11	%	11	%	ASTM D638
<b>Impact</b>					
Notched Izod Impact Strength					
(73 °F, Method A)	No Break				ASTM D256
(23 °C, Method A)				No Break	ASTM D256
<b>Hardness</b>					
Rockwell Hardness, (R-Scale)	79		79		ASTM D785
<b>Thermal</b>					

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Deflection Temperature Under Load			
(66 psi, Unannealed)	185 °F		ASTM D648
(0.45 MPa, Unannealed)		85 °C	ASTM D648

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### Notes

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

### Automotive Specifications

- ▶ FCA MS-DB500 CPN 3735
- ▶ FCA MS-DB500 CPN 4002
- ▶ Ford ESA-M4D281-A
- ▶ Ford WSS-M4D932-A1
- ▶ Ford WSS-M4D932-B1
- ▶ GM GMP.PP.021
- ▶ GM GMW15702-150041
- ▶ GM GMW17178-T1
- ▶ Opel QK003721

### 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.