



# Pro-fax SG702

## LyondellBasell Industries - Polypropylene Impact Copolymer

Friday, January 24, 2025

### General Information

#### Product Description

Pro-fax SG702 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 SG702.

#### General

Material Status	• Commercial: Active		
Regional Availability	• North America		
Features	• Low Temperature Impact Resistance		
Uses	<ul style="list-style-type: none"> <li>• Automotive Applications</li> <li>• Compounding</li> <li>• Consumer Applications</li> </ul>	<ul style="list-style-type: none"> <li>• Containers</li> <li>• Rigid Packaging</li> <li>• Sporting Goods</li> </ul>	<ul style="list-style-type: none"> <li>• Toys</li> </ul>
Automotive Specifications	<ul style="list-style-type: none"> <li>• CHRYSLER MS-DB-500 CPN 2073</li> <li>• CHRYSLER MS-DB-500 CPN 3047</li> <li>• CHRYSLER MS-DB-500 CPN2073 Color: 100% Color Match</li> <li>• CHRYSLER MS-DB-500 CPN3047 Color: Natural</li> <li>• FORD ESB-M4D500-A</li> <li>• FORD ESB-M4D500-A</li> <li>• FORD WSK-M4D604-A</li> </ul>	<ul style="list-style-type: none"> <li>• FORD WSK-M4D604-A</li> <li>• FORD WSS-M4D638-C</li> <li>• FORD WSS-M4D638-C</li> <li>• FORD WSS-M4D638-D2</li> <li>• FORD WSS-M4D638-D2</li> <li>• GM GMP.PP.037</li> <li>• GM GMP.PP.037 Color: Natural</li> </ul>	<ul style="list-style-type: none"> <li>• GM GMP.PP.123</li> <li>• GM GMP.PP.123 Color: Natural</li> <li>• GM GMW16008-T1</li> <li>• GM GMW16008-T1</li> <li>• GM GMW16208P-PP-T5</li> <li>• GM GMW16208P-PP-T5</li> </ul>
Processing Method	• Compounding	• Injection Molding	

### ASTM & ISO Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity			
--	0.902	0.902	ASTM D792
73°F (23°C)	0.900 g/cm <sup>3</sup>	0.900 g/cm <sup>3</sup>	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18 g/10 min	18 g/10 min	ASTM D1238

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Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength			
Yield	• 3000 • 2900 psi	• 20.7 • 20.0 MPa	ASTM D638
Yield, 73°F (23°C)	2900 psi	20.0 MPa	ISO 527-2
Tensile Elongation			
Yield	6.0 %	6.0 %	ASTM D638
Yield, 73°F (23°C)	6.0 %	6.0 %	ISO 527-2
Flexural Modulus			
1% Secant <sup>2</sup>	150000 psi	1030 MPa	ASTM D790A
1% Secant <sup>3</sup>	149000 psi	1030 MPa	ASTM D790A
73°F (23°C)	141000 psi	970 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F (-40°C)	1.2 ft·lb/in <sup>2</sup>	2.6 kJ/m <sup>2</sup>	
73°F (23°C)	7.6 ft·lb/in <sup>2</sup>	16 kJ/m <sup>2</sup>	
Notched Izod Impact			
73°F (23°C)	• No Break • No Break	• No Break • No Break	ASTM D256A
-40°F (-40°C)	2.4 ft·lb/in <sup>2</sup>	5.0 kJ/m <sup>2</sup>	ISO 180
73°F (23°C)	20 ft·lb/in <sup>2</sup>	42 kJ/m <sup>2</sup>	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	• 183 • 183 °F	• 83.9 • 84.0 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	160 °F	71.0 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	120 °F	49.0 °C	ISO 75-2/A

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.050 in/min (1.3 mm/min)

<sup>3</sup> 0.051 in/min (1.3 mm/min)

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