

Pro-fax SG702

LyondellBasell Industries - Polypropylene Impact Copolymer

Thursday, December 21, 2023

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.

An ASTM and ISO-based versions of the technical datasheet are available for Pro-fax SG702.

For regulatory compliance information see Pro-fax SG702 Product Stewardship Bulletin (PSB).

General

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

ASTM & ISO Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity			
--	0.900	0.900	ASTM D792B
73°F (23°C)	0.900 g/cm ³	0.900 g/cm ³	ISO 1183
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 ²	2900 psi	20.0 MPa	ASTM D638
Yield, 73°F (23°C)	2760 psi	19.0 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 ³	150000 psi	1030 MPa	ASTM D790A
73°F (23°C)	133000 psi	920 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-40°F (-40°C)	1.4 ft·lb/in ²	2.9 kJ/m ²	
73°F (23°C)	7.6 ft·lb/in ²	16 kJ/m ²	
Notched Izod Impact			
73°F (23°C)	No Break	No Break	ASTM D256A
-40°F (-40°C)	2.4 ft·lb/in ²	5.0 kJ/m ²	ISO 180
73°F (23°C)	20 ft·lb/in ²	42 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	180 °F	82.2 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	156 °F	69.0 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	120 °F	49.0 °C	ISO 75-2/A

Notes

¹ Typical properties: these are not to be construed as specifications.

² 2.0 in/min (51 mm/min)

³ 0.050 in/min (1.3 mm/min)

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