

Pro-fax 6323

LyondellBasell Industries - Polypropylene Homopolymer

Thursday, December 21, 2023

General Information

Product Description

Pro-fax 6323 general purpose polypropylene homopolymer is available in pellet form. This resin is typically used in injection molding applications.

An ASTM and ISO-based versions of the technical datasheet are available for Pro-fax 6323.

For regulatory compliance information see Pro-fax 6323 Product Stewardship Bulletin (PSB).

General

Material Status	• Commercial: Active		
Regional Availability	• North America		
Features	• Good Stiffness • Heat Aging Resistant	• High ESCR (Stress Crack Resist.) • Homopolymer	
Uses	• Automotive Applications • Caps	• Closures • Containers	• Sporting Goods • Toys
Automotive Specifications	• CHRYSLER MS-DB-500 CPN2571		
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
--	0.900 g/cm ³	0.900 g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12 g/10 min	12 g/10 min	ASTM D1238
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength			
Yield ²	4930 psi	34.0 MPa	ASTM D638
Yield, 73°F (23°C)	4500 psi	31.0 MPa	ISO 527-2
Tensile Elongation			
Yield	11 %	11 %	ASTM D638
Yield, 73°F (23°C)	11 %	11 %	ISO 527-2
Flexural Modulus			
1% Secant ³	210000 psi	1450 MPa	ASTM D790A
73°F (23°C)	187000 psi	1290 MPa	ISO 178

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Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	2.0 ft·lb/in ²	4.2 kJ/m ²	ISO 179
Notched Izod Impact			
73°F (23°C)	0.60 ft·lb/in	32 J/m	ASTM D256A
73°F (23°C)	2.0 ft·lb/in ²	4.1 kJ/m ²	ISO 180
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	199 °F	93.0 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	169 °F	76.0 °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 (50 mm/min)

³ 0.051 in/min (1.3 mm/min)

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