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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/cm³	0.900	g/cm³	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/in²	4.2	kJ/m²	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/in²	4.1	kJ/m²	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)