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Pro-fax 6523

LyondellBasell Industries - Polypropylene Homopolymer

Thursday, December 21, 2023

General Information

Product Description

Pro-fax 6523 general purpose polypropylene homopolymer resin is available in pellet form.

An ASTM and ISO-based versions of the technical datasheet are available for Pro-fax 6523.

For regulatory compliance information see Pro-fax 6523 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	• Food Containers	• Household Goods	• Thermoformed Containers
Automotive Specifications	• CHRYSLER MS-DB-500 CPN1537 Color: Natural • FORD ESA-M4D134-A	• FORD ESF-M4D135-A • GM GMP.PP.013 Color: Natural	
Processing Method	• Extrusion	• Injection Molding	• Thermoforming

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)	4.0	g/10 min	4.0	g/10 min	ASTM D1238
Mechanical	**Typical Value (English)**		**Typical Value (SI)**		**Test Method**
Tensile Strength					
Yield [2]	4790	psi	33.0	MPa	ASTM D638
Yield, 73°F (23°C)	4350	psi	30.0	MPa	ISO 527-2
Tensile Elongation					
Yield	12	%	12	%	ASTM D638
Yield, 73°F (23°C)	12	%	12	%	ISO 527-2
Flexural Modulus					
1% Secant [3]	200000	psi	1380	MPa	ASTM D790A
73°F (23°C)	184000	psi	1270	MPa	ISO 178

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Impact	Typical Value (English)		Typical Value (SI)		Test Method
Charpy Notched Impact Strength (73°F (23°C))	3.2	ft·lb/in²	6.7	kJ/m²	ISO 179
Notched Izod Impact					
73°F (23°C)	0.99	ft·lb/in	53	J/m	ASTM D256A
73°F (23°C)	3.0	ft·lb/in²	6.2	kJ/m²	ISO 180
Thermal	**Typical Value (English)**		**Typical Value (SI)**		**Test Method**
Deflection Temperature Under Load					
66 psi (0.45 MPa), Unannealed	190	°F	88.0	°C	ASTM D648
66 psi (0.45 MPa), Unannealed	174	°F	79.0	°C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	122	°F	50.0	°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)