

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-AGM GMP.PP.013 Color: Natura	I
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)

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