

Pro-fax 6523

LyondellBasell Industries - Polypropylene Homopolymer

Friday, January 24, 2025

General Information

Product Description

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

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

General			
Material Status	Commercial: Active		
Regional Availability	North America		
Features	 Heat Aging Resistant 		
Uses	Automotive ApplicationsConsumer ApplicationsFood Containers	Rigid PackagingStrappingTape	Thermoformed Containers
Automotive Specifications	 CHRYSLER MS-DB-500 CPN 1537 CHRYSLER MS-DB-500 CPN1537 Color: Natural FORD ESA-M4D134-A 	FORD ESA-M4D134-AFORD ESB-M4D135-AFORD ESF-M4D135-A	GM GMP.PP.013GM GMP.PP.013 Color: NaturaGM GMW15702-150088
Processing Method	Cast Film	Injection Molding	Thermoforming

ASTM & ISO Properties ¹							
Physical	Typical Value	(English)	Typical Value	(SI)	Test Method		
Density / Specific Gravity							
	0.902		0.902		ASTM D792		
73°F (23°C)	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	48004790	psi	33.133.0	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 ²	200000	psi	1380	MPa	ASTM D790A		
1% Secant ³	200000	psi	1380	MPa	ASTM D790A		
	184000	psi	1270	MPa	ISO 178		

Copyright ©, 2025, Formerra, LLC. All the information in this literature is for general information purpose only. Formerra makes no representations, guarantees, or warranties of any kind with respect to the information contained in this literature, including its accuracy, completeness, reliability, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for pricing, property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Formerra makes no warranties or guarantees respecting suitability of either Formerra's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. FORMERRA MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature or any other provided literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner. Any action you take upon the information you find in this literature is strictly at your own risk. Formerra will not be liable for any losses and/or damages in connection with the use of this literature. By using this literature, you hereby consent to this disclaimer and agree to its terms.

Pro-fax 6523

LyondellBasell Industries - Polypropylene Homopolymer

Impact		Typical Value	(English)	T	ypical 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)	•	1.0 0.99	ft·lb/in	•	53 53	J/m	ASTM D256A
73°F (23°C)		3.0	ft·lb/in²		6.2	kJ/m²	ISO 180
Thermal		Typical Value	(English)	T	ypical Value	(SI)	Test Method
Deflection Temperature Under Load							
66 psi (0.45 MPa), Unannealed	•	190 190	°F	•	88.0 87.8	°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

Copyright ©, 2025, Formerra, LLC. All the information in this literature is for general information purpose only. Formerra makes no representations, guarantees, or warranties of any kind with respect to the information contained in this literature, including its accuracy, completeness, reliability, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for pricing, property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Formerra makes no warranties or guarantees respecting suitability of either Formerra's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. FORMERRA MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature or any other provided literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner. Any action you take upon the information you find in this literature is strictly at your own risk. Formerra will not be liable for any losses and/or damages in connection with the use of this literature. By using this literature, you hereby consent to this disclaimer and agree to its terms.

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

² 0.050 in/min (1.3 mm/min)

³ 0.051 in/min (1.3 mm/min)