

Pro-fax 7823

Polypropylene Copolymer

LyondellBasell Industries

Message:

Pro-fax 7823 fractional melt flow polypropylene copolymer is available in pellet form. This resin is typically used in extrusion applications and offers high melt strength and excellent impact resistance.

An ASTM and ISO-based versions of the technical datasheet are available for Pro-fax 7823

For regulatory compliance information see Pro-fax 7823 Product Stewardship Bulletin (PSB).

General Information			
Features	Copolymer		
	Good Heat Aging Resistance		
	Good Impact Resistance		
	Good Melt Strength		
	Good Stiffness		
	Low Flow		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
	Automotive Under the Hood		
	Film		
	Food Packaging		
	Strapping		
	Structural Parts		
	Tape		
Forms	Pellets		
Processing Method	Blown Film		
	Extrusion		
	Extrusion Blow Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.898	g/cm ³	ASTM D792B
--	0.900	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.45	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	28.0	MPa	ASTM D638
Yield, 23°C	26.0	MPa	ISO 527-2

Tensile Elongation			
Yield	11	%	ASTM D638
Yield, 23°C	11	%	ISO 527-2
Flexural Modulus			
1% Secant ²	1240	MPa	ASTM D790A
23°C	1180	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179
-40°C	2.9	kJ/m ²	
23°C	66	kJ/m ²	
Notched Izod Impact			
23°C	No Break		ASTM D256A
-40°C	4.0	kJ/m ²	ISO 180
23°C	64	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	85.0	°C	ASTM D648
0.45 MPa, Unannealed	78.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	49.0	°C	ISO 75-2/A
NOTE			
1.	50 mm/min		
2.	1.3 mm/min		

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

