

Pro-fax 6523

Polypropylene Homopolymer

LyondellBasell Industries

Message:

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 Information			
Features	Good Heat Aging Resistance		
	Good Stiffness		
	High ESCR (Stress Crack Resist.)		
	Homopolymer		
Uses	Food Containers		
	Household Goods		
	Thermoformed Containers		
Processing Method	Extrusion		
	Injection Molding		
	Thermoforming		
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)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	33.0	MPa	ASTM D638
Yield, 23°C	30.0	MPa	ISO 527-2
Tensile Elongation			
Yield	12	%	ASTM D638
Yield, 23°C	12	%	ISO 527-2
Flexural Modulus			
1% Secant ²	1380	MPa	ASTM D790A
23°C	1270	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.7	kJ/m ²	ISO 179
Notched Izod Impact			

23°C	53	J/m	ASTM D256A
23°C	6.2	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	88.0	°C	ASTM D648
0.45 MPa, Unannealed	79.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
NOTE			
1.	50 mm/min		
2.	1.3 mm/min		

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