

Pro-fax 8623

Polypropylene Impact Copolymer

LyondellBasell Industries

Message:

Pro-fax 8623 very high impact polypropylene copolymer is available in pellet form. This resin is typically used in extrusion and injection molding applications and offers excellent cold temperature impact resistance.

An ASTM and ISO-based versions of the technical datasheet are available for Pro-fax 8623

For regulatory compliance information see Pro-fax 8623 Product Stewardship Bulletin (PSB).

General Information			
Features	Good Stiffness		
	Impact Copolymer		
	Low Temperature Impact Resistance		
Uses	Automotive Applications		
	Containers		
Appearance	Opaque		
Forms	Pellets		
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)	1.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield ¹	23.0	MPa	ASTM D638
Yield, 23°C	22.0	MPa	ISO 527-2
Tensile Elongation			
Yield	9.0	%	ASTM D638
Yield, 23°C	10	%	ISO 527-2
Flexural Modulus			
1% Secant ²	1040	MPa	ASTM D790A
23°C	1020	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179

-40°C	3.3	kJ/m²	
23°C	82	kJ/m²	
Notched Izod Impact			
23°C	No Break		ASTM D256A
23°C	65	kJ/m²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	77.0	°C	ASTM D648
0.45 MPa, Unannealed	68.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	46.0	°C	ISO 75-2/A
NOTE			
1.	50 mm/min		
2.	1.3 mm/min		

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