

Pro-fax PF511

Polypropylene Homopolymer

LyondellBasell Industries

Message:

Pro-fax PF511 radiation resistant, high melt flow, controlled rheology polypropylene homopolymer is available in pellet form. This resin is typically used in injection molding applications and offers retention of physical properties and color after radiation sterilization and good processability.

This resin resists yellowing and embrittlement after gamma radiation. However, since performance and appearance after radiation sterilization can be sensitive to design and processing choices, the users should verify performance in their application.

Our customers typically use this resin in applications such as medical devices, syringes, test tubes and blood vials.

For regulatory compliance information see Pro-fax PF511 Product Stewardship Bulletin (PSB).

Without exception, all potential activities for applications in the pharmaceutical, medical device, laboratory and diagnostics area have to be discussed with the relevant LyondellBasell Technical and Business contacts first.

General Information			
Features	Good Color Stability		
	Good Processability		
	Radiation (Gamma) Resistant		
	Radiation Sterilizable		
Uses	Medical/Healthcare Applications		
	Vials		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898	g/cm ³	ASTM D792B
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	26.9	MPa	ASTM D638
Tensile Elongation (Yield)	16	%	ASTM D638
Flexural Modulus - 1% Secant ²	758	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	32	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	77.2	°C	ASTM D648
NOTE			
1.	51 mm/min		
2.	1.3 mm/min		

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