

Purell RP170G

Polypropylene, Specialty Products

Product Description

 $\it Purell$ RP170G is a soft polyolefinic resin suitable for extrusion blow molding and injection molding applications.

Purell RP170G is typically used at customers for transparent packaging of pharmaceuticals produced in blown-fill-seal (BFS) technology (eg IV bottles, ampoules, vials).

Purell RP170G exhibits an excellent balance of toughness and transparency at a very good softness. It is suitable for steam sterilization in autoclave at 121°C, not affecting its mechnical and optical properties.

For regulatory information please refer to *Purell* RP170G Product Stewardship Bulletin (PSB). Without exception, the supply in such applications is subject to our preliminary review. Please get in contact with your local sales contact for further details.

Product Characteristics				
Status	Development			
Test Method used	ISO			
	Europe, North America, Asia-Pacific, Australia/NZ, Africa- Middle East, Latin America			
Processing Methods	Blow, Fill, & Seal, Extrusion Blow Molding			
	Autoclavable, High Clarity, Good Flexibility, Good Heat Resistance, Good Optical Properties, High Transparency			
	Blow-fill-seal applications, Bottles and vials, Healthcare Applications, Medical Devices, Medical Film			
Typical Properties		Method	Value	Unit
Physical				
Density		ISO 1183	0.90	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)		ISO 1133	1.6	g/10 min
Mechanical				
Tensile Modulus		ISO 527-1, -2	550	MPa
Tensile Stress at Yield		ISO 527-1, -2	20	MPa
Tensile Strain at Break (23 °C)		ISO 527-1, -2	500	%
Tensile Strain at Yield (23 °C)		ISO 527-1, -2	15	%
Impact				
Charpy notched impact strength		ISO 179		
(0 °C)			7	kJ/m²
(23 °C)			25	kJ/m²
Thermal				
Heat deflection temperature B (0.45 M Unannealed	IPa)	ISO 75B-1, -2	61	°C
Vicat softening temperature A/50		ISO 306	126	°C
Optical				
Haze (1 mm)		ASTM D 1003	20	%
Note: (plaque not nucleated)				

Notes

Typical properties; not to be construed as specifications.

Further Information

Conveying: Conveying equipment should be designed to prevent production and accumulation of fines and dust particles that are contained in polymer resins. These particles can under certain conditions pose an explosion hazard. We recommend the conveying system used is equipped with adequate filters, is operated and maintained that no leak develops and adequate grounding exists at all times.

Health and Safety:

The resin is manufactured to the highest standards but, special requirements apply to certain applications such as food end-use contact and direct medical use. For specific information on regulatory compliance contact your local representative.

Workers should be protected from the possibility of skin or eye contact with molten polymer. Safety glasses are suggested as a minimal precaution to prevent mechanical or thermal injury to the eyes. Molten polymer may be degraded if it is exposed to air during any of the processing and offline operations. The products of degradation have an unpleasant odour. In higher concentrations they may cause irritation of the mucus membranes. Fabrication areas should be ventilated to carry away fumes or vapours. Legislation on the control of emissions and pollution prevention must be observed. If the principles of sound manufacturing practice are adhered to and the place of work is well ventilated, no health hazards are involved in processing the resin.

The resin will burn when supplied with excess heat and oxygen. It should be handled and stored away from contact with direct flames and/or ignition sources. In burning the resin contributes high heat and may generate a dense black smoke. Starting fires can be extinguished by water, developped fires should be extinguished by heavy foams forming an aqueous or polymeric film. For further information about safety in handling and processing please refer to the Material Safety Data Sheet.

Storage:

The resin is packed in 25 kg bags or in bulk containers protecting it from contamination. If it is stored under adverse conditions, i. e. if there are large fluctuations in ambient temperature and the atmospheric humidity is high, moisture may condense inside the packaging. Under these circumstances, it is recommended to dry the resin before use. Unfavourable storage conditions may also intensify the resin's slight characteristic odour.

The resin is subjected to degradation by ultra-violet radiations or by high storage temperatures. Therefore the resin must be protected from direct sunlight, temperatures above 40°C and high atmospheric humidity during storage. The resin can be stored over a period of more than 6 month without significant changes in the specified properties, appropriate storage conditions provided. Higher storage temperatures reduce the storage time.

The information submitted is based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. The data do not relieve the customer from his obligation to control the resin upon arrival and to complain about faults. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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- Equistar Chemicals, LP
- Basell Sales & Marketing Company B.V.
- Basell Asia Pacific Limited
- Basell International Trading FZE
- LyondellBasell Australia Pty Ltd

For the contact details of the LyondellBasell company selling this product in your country, please visit <u>http://www.lyondellbasell.com/</u>.

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Users should review the applicable Material Safety Data Sheet before handling the product.

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