

PRODUCT INFORMATION

# Purell RP375R

PP grade with excellent resistance to gamma/x-ray sterilization and good flowability



The new polypropylene (PP) random copolymer *Purell* RP375R is the latest addition to the *Purell* range of products. Produced with a non-phthalate based catalytic system it supports the requirements of the healthcare industry in providing a very pure material. Converters report that injection molded items produced with *Purell* RP 375R offer an excellent transparency and good balance of physical and mechanical properties.

*Purell* RP375R has a tailor made additivation package to enhance its resistance to gamma radiation making it suitable for items to be sterilized via gamma irradiation. Additionally any x-ray inspected packaging materials remain undamaged during any security check.

As part of the *Purell* family of grades, this product benefits from LyondellBasell's *Purell* Service Concept, developed for customers in the pharmaceutical and healthcare industry.

## Product Benefits

- Good Flowability, for short cycle times and low conversion temperatures (cost savings)
- Suitable for injection molding of thin walled and complex design items
- Very good transparency
- Excellent Resistance to gamma/x-ray's irradiation & sterilization process maintaining packaging integrity

## Some typical applications

- Labware
- Medical Device components
- Syringes
- Medical and Pharma Packaging
- Diagnostics
- Injection Pens components

## Resin Properties

Typical Properties	Method	Value	Unit
MFR (@ 230°C/2.16kg)	ISO 1133	25	g/10min
Tensile Modulus	ISO 527-1,-2	1000	MPa
Charpy Notched Impact (23 °C)	ISO 179	6.0	kJ/m <sup>2</sup>
Haze (1mm plaque)	ASTM D1003	9.0	%

Note: Typical properties, not to be considered as specifications

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- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices;
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- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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