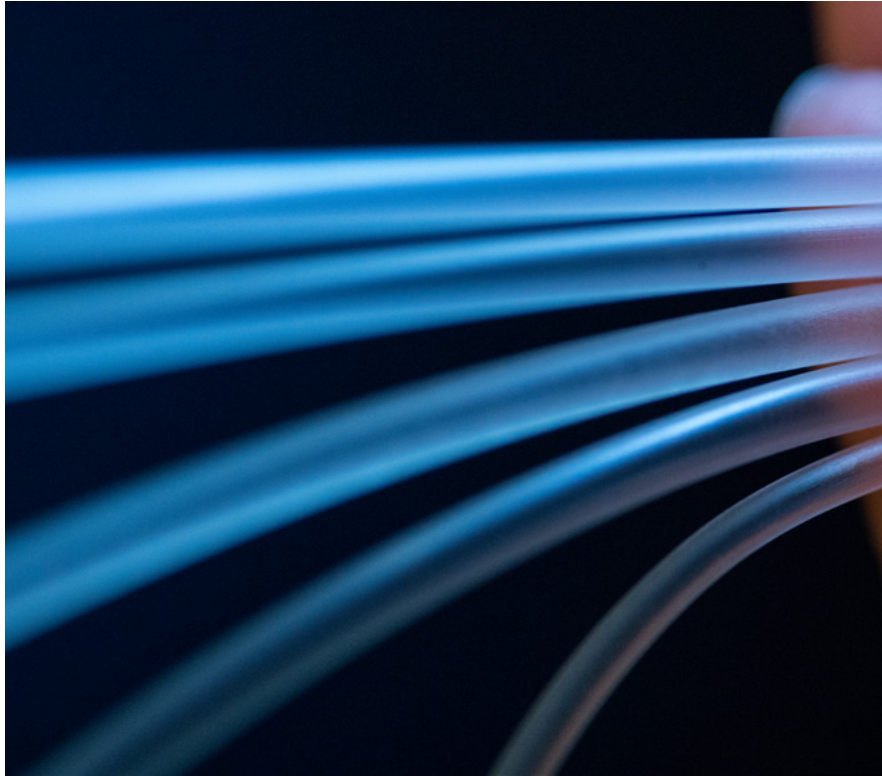


PRODUCT INFORMATION

# Purell KT MR 07

PB-1 grade for improved flexibility and transparency in healthcare applications



The new polybutene-1 (PB-1) based resin *Purell* KT MR 07 is a high molecular weight elastomer obtained by polymerizing butene-1 and is based on metallocene catalyst technology. *Purell* KT MR 07 has excellent compatibility with polypropylene (PP) and enhances softness, flexibility and elasticity of healthcare applications. Moreover when blended with PP, *Purell* KT MR 07 improves transparency as well as impact resistance at room temperature and sub-zero conditions.

*Purell* KT MR 07 can be easily processed using tubing extrusion, injection molding, blow molding, injection stretch blow molding, blown film and cast film technologies.

As part of the *Purell* family of grades, this product benefits from LyondellBasell's *Purell* Service Concept offering dedicated manufacturing procedures and standards for products that ensure customer material requirements for the pharmaceutical and healthcare industry are met.

This innovative elastomer is non-phthalate based and is free of plasticizers. Therefore, it can be easily incinerated for energy recovery without the risk of toxic emissions due to the absence of any heavy metals, pigments or plasticizers. *Purell* KT MR 07 offers a complete polyolefin solution in combination with PP for healthcare applications and can be considered for inter-material replacement of PVC or other products existing in the market.

Typical properties	Method	Value	Unit
MFR (@190°C/2.16kg)	ISO 1133-1	1.3	g/10min
Density	ISO 1183-1	0.870	g/cm <sup>3</sup>
Flexural Modulus	ISO 178	< 10	MPa
Charpy Notched Impact (23°C)	ISO 179	No Break	kJ/m <sup>2</sup>
Shore Hardness (Shore A)	ISO 868	60	
Compression Set (23°C, 22h)	ISO 185	35	%

Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally.

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT.

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

This product(s) may not be used in the manufacture of any of the following, without prior written approval by Seller for each specific product and application:

- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (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.

The product(s) may not be used in:

- (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.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

In addition to the above, LyondellBasell may further prohibit or restrict the use of its products in certain applications. For further information, please contact a LyondellBasell representative.

PB-1 may not be used in the manufacture of pipe applications intended for sale or shipment to North America, without prior written approval by Seller for each specific product and application.

*Purell* is a trademark owned or used by the LyondellBasell family of companies and is registered in the U.S. Patent and Trademark Office.