Purell PE 3020 D

Low Density Polyethylene LyondellBasell Industries



Technical Data

Product Description

Purell PE 3020 D is a low density polyethylene with high rigidity, good opticals and good chemical resistance. It is delivered in pellet form. The grade is used by our customers for small blow mouldings including packaging of pharmaceuticals in blow fill seal technology and injection moulding for medical devices, closures and seals.

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

To discuss a medical/pharmaceutical application please contact: your local Distributor or your local Basell contact.

General			
Material Status	Commercial: Active		
Literature ¹	 Processing - Mold Shrink (English) Processing - Polyolefin Injection Molding Guide (English) Technical Datasheet - ASTM (English) Technical Datasheet - ISO (English) 		
Search for UL Yellow Card	 LyondellBasell Industries 		
Availability	Africa & Middle EastAsia Pacific	EuropeLatin America	North America
Features	Chemical ResistantEthylene Oxide Sterilizable	Good Optical PropertiesHigh Rigidity	
Uses	Blow Molding ApplicationsBottlesCaps	ClosuresFilmMedical/Healthcare Applications	PharmaceuticalsSealsVials
Forms	 Pellets 		
Processing Method	Blown Film	Extrusion Blow Molding	Injection Molding
Physical		Nominal Value Unit	Test Method
Density		0.927 g/cm ³	ISO 1183 ASTM D1505
Apparent (Bulk) Density		> 0.50 g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)		0.30 g/10 min	ASTM D1238 ISO 1133
Environmental Stress-Cracking Resistance (ESCR)		16.0 hr	ASTM D1693
Mechanical		Nominal Value Unit	Test Method
Tensile Modulus			
1% Secant		434 MPa	ASTM D638
23°C		300 MPa	ISO 527-2
Tensile Strength			
Yield		15.2 MPa	ASTM D638
Yield, 23°C		13.0 MPa	ISO 527-2
Break		15.2 MPa	ASTM D638
Tensile Elongation (Break)		700 %	ASTM D638
Flexural Modulus - 1% Secant		414 MPa	ASTM D790
Films		Nominal Value Unit	
Film Thickness - Recommended / Available		60 to 150 μm	
Hardness		Nominal Value Unit	Test Method
Shore Hardness (Shore D)		51	ISO 868
Thermal		Nominal Value Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed		46.0 °C	
Vicat Softening Temperature		102°C	ASTM D1525 ISO 306/A50



Melting Temperature (DSC)

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ISO 3146

114 °C

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Extrusion Nominal Value Unit

Melt Temperature 170 to 220 °C

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.



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LyondellBasell Industries



Where to Buy

Supplier

LyondellBasell IndustriesWilmington, DE USA
Telephone: 713-309-7200

Web: https://www.lyondellbasell.com/

Distributor

ALBIS Plastic

ALBIS Plastic is a global distribution and compounding company. Contact ALBIS Plastic for availability of individual products per country.

Telephone: +49-40-78105-0 Web: http://www.albis.com/

Availability: Algeria, Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Luxembourg, Morocco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tunisia, Turkey, United Kingdom

Nexeo Plastics

Telephone: 833-446-3936

Web: https://www.nexeoplastics.com/

Availability: North America

Plastic Service Centers

Telephone: 586-307-3900

Web: http://www.plasticservice.com/

Availability: North America

Ultrapolymers

Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.

Telephone: +32-11-57-95-57

Web: http://www.ultrapolymers.com/

Availability: Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Turkey, United

Kingdom



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