

# Borealis PP HD120MO

Polypropylene Homopolymer

Borealis AG

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## Technical Data

### Product Description

HD120MO is a polypropylene homopolymer with a good combination of mechanical properties intended for injection moulding.

### General

Material Status	• Commercial: Active		
Literature <sup>1</sup>	• <b>Technical Datasheet (English)</b>		
Search for UL Yellow Card	• <b>Borealis AG</b>		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Homopolymer		
Uses	• Caps • Closures	• Packaging • Sanitary Products	
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.908 g/cm <sup>3</sup>	0.908 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0 %	1.0 to 2.0 %	ISO 294-4
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	218000 psi	1500 MPa	ISO 527-2/1
Tensile Stress (Yield)	4860 psi	33.5 MPa	ISO 527-2/50
Tensile Strain (Yield)	9.0 %	9.0 %	ISO 527-2/50
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	1.9 ft·lb/in <sup>2</sup>	4.0 kJ/m <sup>2</sup>	ISO 179/1eA
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	98	98	ISO 2039-2
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	190 °F	88.0 °C	ISO 75-2/B
Injection	Nominal Value (English)	Nominal Value (SI)	
Processing (Melt) Temp	446 to 500 °F	230 to 260 °C	
Mold Temperature	50 to 86 °F	10 to 30 °C	
Injection Rate	Fast	Fast	
Holding Pressure	2900 to 7250 psi	20.0 to 50.0 MPa	

### Notes

<sup>1</sup> 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.

<sup>2</sup> Typical properties: these are not to be construed as specifications.



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### Where to Buy

#### Supplier

##### **Borealis AG**

Vienna, Austria

**Telephone:** +43-122-400-302

**Web:** <http://www.borealisgroup.com/>

#### Distributor

##### **Biesterfeld Plastic GmbH**

*Biesterfeld Plastic GmbH is a Pan European distribution company. Contact Biesterfeld Plastic GmbH for availability of individual products by country.*

**Telephone:** +49-40-32008-0

**Web:** <http://www.biesterfeld-plastic.com/>

**Availability:** Bosnia and Herzegovina, Bulgaria, Ireland, Romania, Serbia, Turkey, United Kingdom

##### **Nexeo Solutions - Europe**

*Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.*

**Telephone:** +34-93-480-9125

**Web:** <http://www.nexeosolutions.com/>

**Availability:** Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Russian Federation, Spain, Sweden, Switzerland, United Kingdom

##### **RESINEX Group**

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

**Telephone:** +32-14-672511

**Web:** <http://www.resinex.com/>

**Availability:** Europe

