Borealis PP HD120MO

Polypropylene Homopolymer

Borealis AG

PROSPECTOR®

Technical Data

Product Description

HD120MO is a polypropylene hom	nopolymer with a good combination of	of mechanical properties intende	ed for injection moulding.	
General				
Material Status	Commercial: Active			
Literature ¹	Technical Datasheet (English)			
Search for UL Yellow Card	Borealis AG			
Availability	 Africa & Middle East Asia Pacific	EuropeLatin America	North America	
Features	 Homopolymer 			
Uses	CapsClosures	PackagingSanitary Products		
Forms	Pellets			
Processing Method	 Injection Molding 			

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.908 g/cm ³	0.908 g/cm ³	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 ²	4.0 kJ/m ²	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			ISO 75-2/B
66 psi (0.45 MPa), Unannealed	190 °F	88.0 °C	
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

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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The information presented on this datasheet was acquired by UL Prospector from the producer of the material. UL Prospector makes substantial efforts to assure the accuracy of this data. However, UL Prospector assumes no responsibility for the data values and strongly encourages that upon final material selection, data points are validated with the material supplier.

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Polypropylene Homopolymer **Borealis AG**

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.

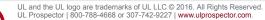
Telephone: +34-93-480-9125 Web: http://www.nexeosolutions.com/

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





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