

Borealis PP HJ325MO

Polypropylene Homopolymer

Borealis AG

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Technical Data

Product Description

HJ325MO is a polypropylene homopolymer intended for injection moulding. Its very high melt flow makes it especially suitable for thin-wall packaging and products with long flow length. It is designed for high-speed injection moulding and contains nucleating and antistatic additives. The additives are optimized to provide reduced tendency for mould plate-out.

This polymer is a CR (controlled rheology) grade with narrow molecular weight distribution giving low warpage. Components moulded from this grade show good ejectability and combine good stiffness with good transparency and gloss, good antistatic properties and good impact strength at ambient temperatures.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Search for UL Yellow Card	• Borealis AG
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Additive	• Antistatic • Nucleating Agent
Features	• Antistatic • Controlled Rheology • Fast Molding Cycle • Good Impact Resistance • Good Mold Release • High Clarity • High Flow • High Gloss • High Stiffness • Homopolymer • Low Warpage • Narrow Molecular Weight Distribution • Nucleated
Uses	• Caps • Closures • Containers • Lids • Support Trays • Thin-walled Containers
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.910 g/cm ³	0.910 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	50 g/10 min	50 g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0 %	1.0 to 2.0 %	Internal Method
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	239000 psi	1650 MPa	ISO 527-2/1
Tensile Stress (Yield)	5080 psi	35.0 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))	0.95 ft·lb/in ²	2.0 kJ/m ²	ISO 179/1eA
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	101	101	ISO 2039-2
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature ³ 66 psi (0.45 MPa), Unannealed	217 °F	103 °C	ISO 75-2/B
Injection	Nominal Value (English)	Nominal Value (SI)	
Processing (Melt) Temp	410 to 482 °F	210 to 250 °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.

³ Injection molded specimen



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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

