

Technical Data Sheet

**Matrixx 15A4201D**

Polypropylene
LyondellBasell Industries
Engineering Plastics

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Talc, 20% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant
Appearance	• Colors Available
Forms	• Pellets

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.37	1.37 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3000 psi	20.7 MPa	ASTM D638
Flexural Modulus - Tangent	350000 psi	2410 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	1.0 ft·lb/in	53 J/m	ASTM D256
Gardner Impact	70.0 in·lb	7.91 J	ASTM D5420
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	240 °F	116 °C	
264 psi (1.8 MPa), Unannealed	155 °F	68.3 °C	
RTI Str	221 °F	105 °C	UL 746B
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm)	V-0	V-0	
0.12 in (3.0 mm)	5VA	5VA	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature - Desiccant Dryer	180 °F	82 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	360 to 400 °F	182 to 204 °C
Middle Temperature	360 to 400 °F	182 to 204 °C
Front Temperature	360 to 440 °F	182 to 227 °C
Nozzle Temperature	360 to 440 °F	182 to 227 °C
Mold Temperature	90 to 150 °F	32 to 66 °C
Injection Rate	Slow-Moderate	Slow-Moderate
Back Pressure	< 100 psi	< 0.689 MPa
Screw Speed	20 to 60 rpm	20 to 60 rpm

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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