

Technical Data Sheet

**Bmc 1100 CoreLyn**

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description

BMC 1100, also known as CoreLyn, is a food contact safe material with excellent scratch and stain resistant properties. CoreLyn can be pigmented to match virtually any color. This glass fiber-reinforced polyester compound is suitable for compression, transfer and stuffer injection molding. As with all other BMC, Inc. compounds, CoreLyn can be supplied in logs, slugs or bulk. Typical applications are microwave dishware and serving trays.

General

Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber		
Features	• Food Contact Acceptable	• Good Scratch Resistance	• Stain Resistant
Uses	• Support Trays		
Appearance	• Colors Available		
Forms	• BMC - Bulk Molding Compound		
Processing Method	• Compression Molding	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.90	1.90 g/cm ³	ASTM D792
Water Absorption (24 hr, 73°F (23°C))	0.30 %	0.30 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield, Compression Molded)	5500 psi	37.9 MPa	ASTM D638
Flexural Modulus (Compression Molded)	1.90E+6 psi	13100 MPa	ASTM D790
Flexural Strength (Compression Molded)	14000 psi	96.5 MPa	ASTM D790
Compressive Strength	18000 psi	124 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (Compression Molded)	3.5 ft·lb/in	190 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	65	65	ASTM D2583
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, Compression Molded	400 °F	204 °C	ASTM D648

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Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	320 to 360 °F	160 to 182 °C

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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