

Technical Data Sheet



Bmc 310

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics

Product Description

BMC 310 is a cosmetic and appliance grade material with superior heat and stain resistant properties. As with all other BMC I compounds, this Series can be supplied in logs, slugs or bulk. Typical applications are oven handles, vent trim and control panels.

General

Material Status	• Commercial: Active
Availability	• North America
Features	• High Heat Resistance • Stain Resistant
Uses	• Appliances • Cosmetics • Handles
Forms	• BMC - Bulk Molding Compound

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.80 to 2.00	1.80 to 2.00 g/cm ³	ASTM D792
Water Absorption (24 hr, 73°F (23°C))	0.10 to 0.20 %	0.10 to 0.20 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	5000 to 8000 psi	34.5 to 55.2 MPa	ASTM D638
Flexural Modulus	1.60E+6 to 2.00E+6 psi	11000 to 13800 MPa	ASTM D790
Flexural Strength	10000 to 18000 psi	68.9 to 124 MPa	ASTM D790
Compressive Strength	18000 to 22000 psi	124 to 152 MPa	ASTM D695
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	2.0 to 6.0 ft-lb/in	110 to 320 J/m	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Barcol Hardness	40 to 55	40 to 55	ASTM D2583
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	425 to 500 °F	218 to 260 °C	ASTM D648
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.13 in (3.2 mm))	• V-0 • 5VA	• V-0 • 5VA	UL 94

Technical Data Sheet



Bmc 310

Thermoset Polyester
LyondellBasell Industries
Engineering Plastics



Injection	Nominal Value (English)	Nominal Value (SI)
Mold Temperature	280 to 330 °F	138 to 166 °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/>.

© LyondellBasell Industries Holdings, B.V. 2024

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.