

Technical Data Sheet

**Qr Resin QR-1200-GF20**

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics

General			
Material Status	• Commercial: Active		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• General Purpose	• High Heat Resistance	
Appearance	• Black	• Colors Available	• Natural Color
Forms	• Pellets		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.26 to 1.30	1.26 to 1.30 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	> 10800 psi	> 74.5 MPa	ASTM D638
Flexural Modulus	> 870000 psi	> 6000 MPa	ASTM D790
Flexural Strength (Yield)	> 18900 psi	> 130 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	> 1.4 ft·lb/in	> 75 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	> 266 °F	> 130 °C	
264 psi (1.8 MPa), Unannealed	> 240 °F	> 116 °C	
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Glass Fiber Content	18 to 22 %	18 to 22 %	ASTM D5630

Technical Data Sheet



Qr Resin QR-1200-GF20

Polycarbonate + ABS
LyondellBasell Industries
Engineering Plastics



Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	190 °F	88 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Drying Time, Maximum	4.0 hr	4.0 hr
Rear Temperature	480 to 500 °F	249 to 260 °C
Middle Temperature	490 to 510 °F	254 to 266 °C
Front Temperature	500 to 520 °F	260 to 271 °C
Nozzle Temperature	510 to 530 °F	266 to 277 °C
Processing (Melt) Temp	480 to 530 °F	249 to 277 °C
Mold Temperature	100 to 150 °F	38 to 66 °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.